**Historic, Archive Document**

Do not assume content reflects current
scientific knowledge, policies, or practices.

Stum
MAR 8
INDEXED
INDEXED
62.61

# Spring 1915

# SEEDS

## Stumpp & Walter Co.

30 & 32 BARCLAY ST.
NEW YORK

SALPIGLOSSIS SUPERBISSIMA
(ORCHID-FLOWERING)
SEE PAGE 64

# STAIGREEN LAWN SEED

# How About Your Lawn ?

## 25-Pound versus 14-Pound LAWN SEED

Many low-price Grass Seed mixtures weigh only 14 pounds per bushel. This indicates either a good proportion of chaff or some of the real good varieties in the rough state, not properly cleansed so as to leave only the vital part and less of the chaff or shell.

In other words, so many less seeds to the quart or pound that will germinate and grow real grass.

## Why Not Buy the Re-cleaned Kind?

A mixture of grasses weighing 25 pounds per bushel, of high germination and purity, permanent in nature, the varieties carefully proportioned so that they will succeed one another in brightness of foliage, with the result that the lawn, even in its first year, will have a bright, rich green color from early spring until covered by snow.

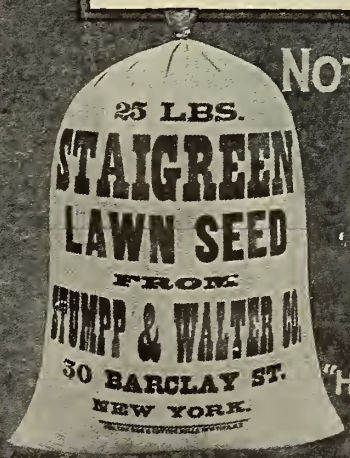
Stumpp & Walter Co

**One Pound will Sow a Plot 20 x 20 feet**
**Sow 80 Pounds to the Acre**

**30 and 32 Barclay St.**
**New York**

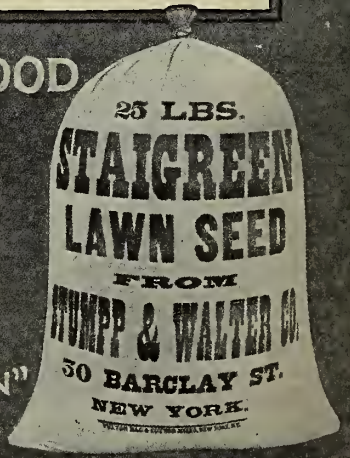
*For General List of Grasses See Pages 72 to 77*

## NOT HOW CHEAP, BUT HOW GOOD




| DELIVERED ANYWHERE IN UNITED STATES | | | |
|---|---|---|---|
| Pound | 5 Pounds | 25 Pounds | 100 Pounds |
| 40 cts. | $1.75 | $8.00 | $30.00 |

DELIVERED ANYWHERE IN UNITED STATES




"HOW TO BUILD A PERMANENT LAWN" PAMPHLET FREE IN EVERY BAG

MAR 8 1918

A splendid adaptation of the flower-garden. Its beauties may be enjoyed from the windows of the home

# SPECIAL FREE DELIVERY

We will deliver all Seeds and Bulbs listed in our catalogue anywhere in the United States, if your purchase amounts to One Dollar or over, when cash accompanies your order, by mail, express or freight at our option, to your town or city. On Implements, Fertilizers, Insecticides, Plants and Potatoes, we do not pay mail, express or freight charges

***Packing.***—We make no charges for cases or packing, only for bags for Timothy and Clover; these bags cost twenty-five cents extra for each two bushels.

***Remittances*** should be made by Draft on Bank, Post-Office Order, Registered Letter or Express Money Order. Small sums may be sent in postage stamps of small denominations. Particular care is essential in having name, post office, county and state distinctly written. We are in receipt of many orders deficient in these important particulars, often causing a delay of weeks in executing them, to the great inconvenience of both parties. Charge accounts are readily opened to all persons of approved credit.

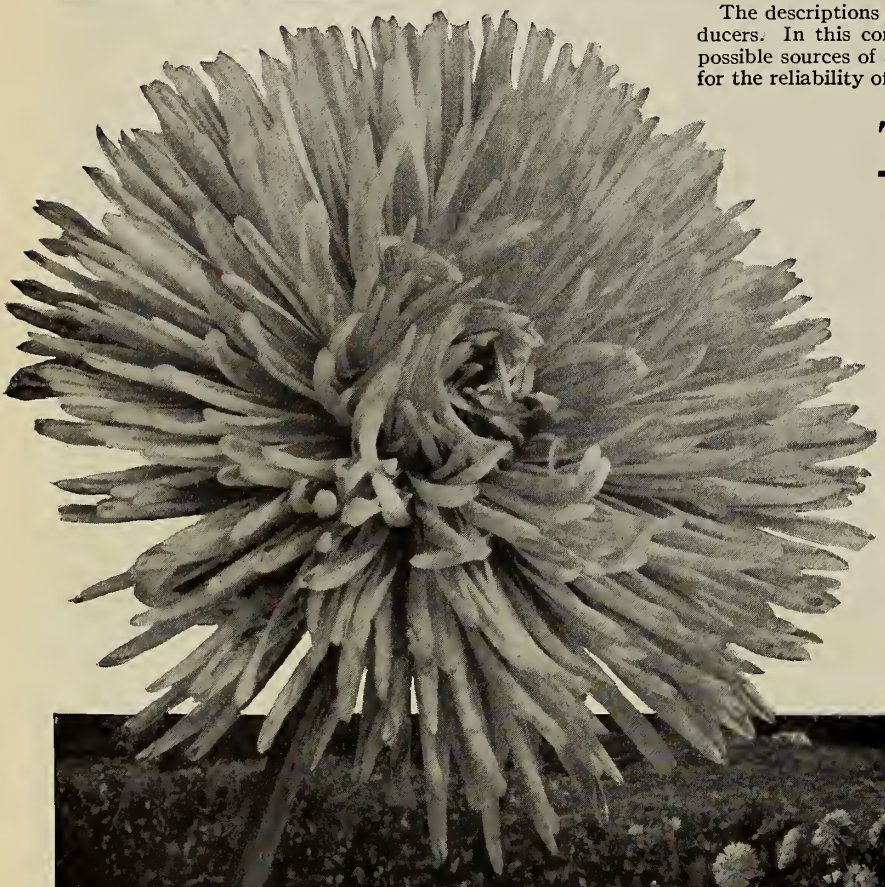
***Non-Warranty.***—While we exercise the greatest care to have all seeds pure and reliable, and all bulbs and plants true to name and of the best quality, we give no warranty, express or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs or Plants we send out, and we will not be responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned. **All claims must be made within 5 days after receipt of goods.**

JULIAN H. WALTER, *President*
GEORGE G. STUMPP, *Treasurer*
WILLIAM A. SPERLING, *Secretary*

***STUMPP & WALTER COMPANY***
***30-32 Barclay St., New York City***

# S. & W. Co.'s Novelties and Specialties in Flower Seeds

The descriptions given of the following Novelties are those of the introducers. In this connection we desire to say that all are from the best possible sources of supply, and have been selected by us with every regard for the reliability of the introducers.



## THE FIVE KING ASTERS

This magnificent class of Asters is distinct from all others in the character of the flowers. The long, narrow petals are folded lengthwise, appearing almost as though quilled. The flowers are of great size and substance, and last longer when cut than any other class.

The plants are large, and the stems exceptionally long and strong. Our customers who have grown this famous group of Asters, four of which we have featured on our back cover, will be pleased to learn of another color being added to this splendid type of Aster.

White King and Pink King are of more upright habit, while Lavender King, Violet King and Rose King are of branching habit; blooming, as they do, with our Late Branching, they make a very desirable addition and should be grown in every garden.

**LAVENDER KING.** Pkt. 15 cts., ⅛oz. $1.
**PINK KING.** Pkt. 15 cts., ⅛oz. $1.
**VIOLET KING.** Pkt. 10 cts., ⅛oz. 60 cts.
**WHITE KING.** Pkt. 15 cts., ⅛oz. $1.
**ROSE KING.** Pkt. 10 cts., ⅛oz. 75 cts.

**Collection:** 1 pkt. each, 5 King Asters....$0 50
⅛ oz. each, 5 King Asters..... 3 50

BED OF KING ASTERS

# TEN CHOICE AMERICAN ASTERS

The following ten Asters, many of which were introduced by James Vick's Sons, Aster Specialists, deserve a place in every garden, as they are among the best of recent introductions.

**Autumn Glory.** **New Very Late Branching Aster.** Pure sea-shell pink. While similar in color to Semple's Pink, with which most persons are familiar, it has a better and more substantial flower, a deeper and longer-keeping color, larger and stronger type of plant. Its most distinctive characteristic and chief claim for recognition, however, is the fact that it is later in season than any of the other varieties. While it cannot take the place of Semple's Pink, Peerless Pink, Shell-Pink Rochester and others of similar color, all of which are earlier, it supplements them by blooming after the other Late Asters are past their prime, and before the early Chrysanthemums are ready, thus prolonging the Aster season two weeks, and coming at a time when good flowers are extremely scarce. Autumn Glory will be a money-maker for the commercial grower, and a delight to the amateur. It comes uniformly true to color and type. The flowers are splendid in size and form, very double, and are borne on stems of unusual length. Pkt. 25 cts., 5 pkts. $1.

**Pink Enchantress.** Upright in habit, as distinguished from the Branching form. The plant is very vigorous, and produces long, strong stems for the support of numerous large exhibition blooms. The flower is always full-double; petals are of medium length and very broad; those toward the center fold in very regularly, while gradually, toward the outer edge, the petals stand out more and more until those on the outside recede from the center, thus increasing the diameter of the flower, which compares very favorably in size with the largest-flowering kinds on our farm. Color similar to that of the Enchantress carnation; flowers late. Pkt. 25 cts., 5 pkts. $1.

**Peach Blossom.** A decided and pleasing shade of deep lavender-pink. The flowers are of the largest Branching size and very deep, having an unusual number of rather narrow petals. The size and thickness of the flower give it a massive effect. The plants are of the non-lateral type, with very strong stems that hold the flowers up at all times; flowers late. Pkt. 25 cts., 5 pkts. $1.

**White Perfection.** Finest midseason white Aster in cultivation. The flowers are 4 inches in diameter and exquisite in form, and the plants are taller than those of the late upright Asters. When first open the entire flower is whorled, producing a charming effect; the broad petals are slightly folded lengthwise, making them appear rather narrow. The plants are extremely vigorous; they carry about twelve large flowers on strong stems free from side branches. Pkt. 25 cts., 5 pkts. $1.

**Early Upright White.** This is one of the best selling novelties of the last two seasons. Plants grow compactly with long, erect flower-stems, which are quite free from side shoots. Plants yield eight to twelve flowers. The flowers are unusually large and solid, compact and ball-shaped. The crown is completely covered. Pkt. 10 cts., ⅛oz. 50 cts.

**Royal Pink.** Possessing all the characteristics of our famous Late Branching, and identical in habit with Royal Purple, except in color, which is a beautiful shell-pink. Blooms several weeks earlier than the Late Branching. Pkt. 25 cts., 5 pkts. $1.

**Royal Purple.** Considered by most people who have grown this as the best medium-early Branching Aster of its color. It has all the advantages of vigor and productiveness; color striking. Pkt. 10 cts., ⅛oz. 50 cts.

**Early Snowdrift.** The earliest white Aster in existence. When planted early the plants will grow quickly and send out eight to fifteen long stems, crowned with immense flowers. Pkt. 10 cts., ⅛oz. 50 cts.

**Lavender Gem.** Truly a gem and easily the finest early lavender. Full-double flower, the feathery effect of the ostrich-feathered type is enhanced by the fact that it bears long, partly tubular florets that are irregularly cut and slashed, resembling ragged chrysanthemums. Pkt. 10 cts., ⅛oz. 50 cts.

**Improved Crego Pink.** The plants are vigorous and productive of from ten to fifteen strong flower-stems frequently 2 feet or more in length. Pure shell-pink flowers, 4 to 5 inches; in bloom from mid-August on through September. Pkt. 10 cts., ⅛oz. 50 cts.

**COLLECTION. One packet each of 10 varieties, $1.25.**

Pink Enchantress Aster

## NOVELTIES AND SPECIALTIES IN FLOWER SEEDS, continued

**Alyssum, Lilac Queen.** A distinct new variety of the popular Sweet Alyssum, with heads of pure lilac flowers and of the same dwarf, compact growth as the low-growing white-flowering varieties, except that the spikes of flowers seem longer. Pkt. 20 cts., 3 pkts. 50 cts.

**Antirrhinum, Heathrose.** A new and attractive semi-dwarf Antirrhinum that has proved a splendid addition this past season. The plants are of compact, upright habit; the blooms are pure white with a brilliant rose tip. A very profuse bloomer. Pkt. 20 cts., 3 pkts. 50 cts.

**Single Aster, Southcote Beauty.** This new race much resembles the single Ostrich-Plume Aster which has become exceedingly popular during the last few years. It has all the beauty of habit and flower which the latter possesses, and is a distinct acquisition. The flowers have long, perfectly formed petals, but the golden yellow centers are very small. They are carried on long, stiff stems, 12 to 20 inches in length. The colors include beautiful shades of pink, blue and white. Southcote Beauty attains a height of 2 to 2½ feet, and is probably unrivaled by any other Aster for cutting and house decoration. Pkt. 15 cts., 2 pkts. 25 cts.

**Begonia gracilis, de Chatelaine.** This Begonia has become as popular a pot-plant as an outdoor bedding variety. It roots and grows just as freely as Erfordii. Perfect globe-shaped plants, literally covered with blooms of a very vivid, yet delicate pink. Pkt. 20 cts., 3 pkts. 50 cts.

**Cardinal Climber** (*Ipomœa Quamoclit hybrida*). This hybrid Ipomœa is considered one of the most brilliant and distinct annual climbers introduced. A rapid grower, often attaining the height of 30 feet or more. The deeply laciniated, fern-like foliage and fiery cardinal-red flowers are borne in profusion from July to frost. The flowers are about 1½ inches in diameter and are borne in clusters of five to seven blooms. Seed may be sown indoors during April, but it is best to wait for warm weather and sow outdoors in a sunny position. Soaking the seeds in warm water before planting hastens germination. Pkt. 25 cts., 5 pkts. $1.

Giant African Marigold (See page 5)

**Calliopsis, Fire King.** The flowers are of a deep bright scarlet, with cactus-shaped petals. It is very free-flowering, the plant being a mass of flowers, as many as 700 blooms being counted on one single plant. The habit is bushy and compact, height about 18 inches; very showy. Pkt. 25 cts., 5 pkts. $1.

**Centaurea Americana.** While this variety of the Giant Cornflower is not a novelty, it is only this past year that it has been more generally seen in the American garden. The stems, foliage and flowers are gigantic in size compared with the regular sorts. The flowers which appear thistle-like and gradually open, and attain the size of 4 inches, are of a splendid, deep lavender-color, making an excellent subject for garden decoration or cutting. Like the Cyanus, it is easily flowered from seed sown outdoors; plants should be placed at least 1 foot apart. Height 3 ft. Pkt. 15 cts., 5 pkts. 50 cts.

**Centaurea moschata rosea.** There has been a great want, indeed, for this color in the *Centaurea moschata*, or Sweet Sultan. The plants of this new variety are very strong growers and free-flowering; the color is a beautiful rose, with a suggestion of lavender. Will become very popular as a cut-flower. Pkt. 20 cts., 3 pkts. 50 cts.

**Clarkia, Brilliant, Double.** This is a distinct advance in the Clarkias, which has resulted from careful selection of the tall-growing varieties. The variety we offer is quite fixed in character; the color is beautiful salmon-pink. Plants grow about 2 feet high, which makes them good subjects for pots or open-ground culture. A grand acquisition to the hardy annual section. Pkt. 20 cts., 3 pkts. 50 cts.

## COSMOS, LADY LENOX, WHITE

All those who have grown the popular Lady Lenox Cosmos will be pleased to know of a white variety which is an exact counterpart of this splendid Cosmos, except in color, having all the qualities of gigantic size, profuseness and symmetry of bloom which has made Lady Lenox the most widely grown Cosmos both in American and European gardens. Pkt. 15 cts., ¼oz. $1, oz. $3.

**Delphinium, Gold Medal Hybrids.** This splendid strain is of strong, vigorous habit, with immense spikes, 2 to 3 feet long, of large flowers mostly in fine shades of light blue. We doubt very much if this wonderful strain can be surpassed, and we recommend all our patrons desirous of obtaining some choice plants to grow this strain. Pkt. 25 cts., 5 pkts. $1.

**Dimorphotheca** **(African Golden Daisy) aurantiaca.** This is by far the best introduction in recent years. The plants are of branching habit, growing about 15 inches high; the flowers are a rich golden orange with a dark center. Being an annual, it is easily cultivated and will give a magnificent display all summer. Very highly recommended. Pkt. 10 cts., 3 pkts. 25 cts., ⅛oz. 75 cts.

**Aurantiaca hybrida.** Beautiful new hybrids of the African Golden Daisy, similar in habit to the parent. The flowers are equally large, but vary in color from purest white through the various shades of yellow, orange and deep salmon, the deep black eye forming a splendid contrast. As a border plant few annuals have attracted more attention of recent years than the African Golden Daisy and its hybrids. Pkt. 20 cts., 3 pkts. 50 cts., ⅛oz. $1.

**Gaillardia Lorenziana, The Bride.** The annual Gaillardias have always been very popular, more especially the double Lorenziana, and we feel that the variety that we now offer as "The Bride" will be much sought after. The flower is white, very double, and borne on very long stalks, making it an ideal plant either for bedding or cut-blooms. Pkt. 20 cts. 3 pkts. 50 cts.

**Gerbera** **(Transvaal Daisy).** This beautiful half-hardy perennial, which has been brought into prominence by the introduction of the improved large-flowering scarlet type and its hybrids, is a splendid pot-plant for greenhouse or conservatory, but is also grown in the garden and used as a cut-flower. The daisy-like flowers are 3 to 4 inches across and are borne on strong stems 12 to 18 inches long. It can be grown easily from seed and will flower the first year if sown indoors in April and transplanted later.

**Jamesonii.** Immense scarlet flowers. Pkt. 20 cts., 3 pkts. 50 cts.

**Jamesonii hybrida.** These hybrids include various colors and tints of orange, yellow, salmon, rose, etc., and are of the same character as the parent. Pkt. 25 cts., 5 pkts. $1.

## NOVELTIES AND SPECIALTIES IN FLOWER SEEDS, continued

## HUNNEMANNIA FUMARIÆFOLIA

**(Giant Yellow Tulip Poppy)**

This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup-yellow, Poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. Pkt. 10 cts., ½oz. 60 cts., oz. $1.

**Lavatera splendens, Sunset.** This beautiful garden annual is of easiest culture, thriving well in any good garden soil in a sunny situation. The plants are of a somewhat branching, compact habit, forming bushes 2 to 2½ feet high, and are literally covered with large, bowl-like flowers of a deep rose-pink color. A grand improvement over existing sorts; excellent for bedding or for use as a cut-flower, lasting a long time after being cut. Pkt. 20 cts., 3 pkts. 50 cts.

## GIANT AFRICAN MARIGOLD

Few plants have to their credit the mass of glorious color such as is furnished by Marigolds and zinnias in the garden. Their season of bloom during the summer untill fall strongly suggests their use. Seed of this type should be sown outdoors in May and transplanted, leaving at least 18 inches each way between the plants, as they are robust growers and can attain their maximum development only if given plenty of growing space.

**Giant Show Lemon.** This highly meritorious strain of the African Marigold is grown specially for us by a specialist in Europe who selects only the finest blooms and plants of unusually good constitution for seeding purposes. Height 2½ feet. Pkt. 25 cts., 5 pkts. $1.

**Giant Show Orange.** The darker form of the preceding variety. Height 2½ feet. Pkt. 25 cts., 5 pkts. $1.

**Nasturtium, New Giant-flowering.** The plants are strong and vigorous, with very large, bright green leaves, measuring from 5 to 8 inches across. The flowers, which are very numerous, measure 3 inches in diameter, and are borne on long stems well above the foliage. They are exquisitely formed, with overlapping, crinkled petals. They are produced in great numbers and have a most striking effect. Their fine color, long stems, great size and esthetic form make them valuable for cutting.

**Giant-flowered, Dwarf, Mixed.** Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.

**Giant-flowered, Tall, Mixed.** Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. $1.50.

**Petunia, S. & W. Co.'s Pink Beauty.** This is a grand acquisition to the single bedding Petunias. Color a beautiful, brilliant rose-pink, throat lightly suffused yellow. The flowers are very large and of handsome form. Of very rapid growth and continuously in bloom. Many who have grown this Petunia in beds, borders or rockeries proclaim it the best they have ever seen. Pkt. 15 cts., 1-16 oz. $1.

New Red Sunflower, showing also a yellow variety

## PANSIES

**(Giant Winter-Blooming)**

These new Pansies may be announced as an introduction of great importance. Sown at the same time as other Pansies, they begin flowering early in March, that is at a time when very few bedding plants are in bloom. The cardinal feature of these plants is an extreme hardiness, which enables them to withstand quite severe winters and to bloom right on into the summer. They have also an appreciable pleasant perfume. For autumn planting on graves and for very early bedding before the advent of spring, as well as for early cut-flowers, this new giant-blooming earliest class can be warmly recommended.

**Winter Sun.** Golden yellow with dark eye.
**Ice King.** Silvery white with dark blue eye.
**Celestial Queen.** Light or sky-blue.
**March Beauty.** Dark, velvety blue.
**Giant Winter, Mixed.**

**Any of above, pkt. 25 cts., 5 pkts. $1.**

## PRIMULAS

**Malacoides** (The Giant Baby Primrose). The flowers measure ½ to ¾ inch across, and the plants branch very freely. The flowers, of a pretty light lilac, are borne in whorls on stems which are graceful and strong. If grown in a greenhouse, can be had in bloom in four or five months after sowing. A most delightful plant for table decoration. Pkt. 25 cts., 5 pkts. $1.

**Malacoides alba.** This beautiful new variety is a welcome addition to this type of Primula. All those who have grown Malacoides have been pleased, making the white variety a strong favorite. Makes a charming combination with the lilac form. Pkt. 25 cts., 5 pkts. $1.

**Forbesii** (The Baby Primrose). Quite the freest-flowering Primula we know of. The plants throw up tiny flower-stalks when only a few weeks old, but we advise pinching them off and the plants kept growing until October. They may then be allowed to flower, which continues until late in the spring in greatest profusion. Pkt. 25 cts., 5 pkts. $1.

**Kewensis.** This new variety is most attractive, with pleasing, bright yellow flowers borne on long stems. It is delightfully fragrant and stands well as a house plant. Pkt. 25 cts., 5 pkts. $1.

**Salvia, New Bouquet Rose.** A splendid new variety with beautiful carmine-rose flowers. The individual blooms are very long, being fully half an inch longer than any of the red varieties. Makes an ideal cut-flower. Pkt. 25 cts., 5 pkts. $1.

**Schizanthus Wisetonensis, Excelsior.** This may be best described as a much larger-flowered strain of Wisetonensis, and with markings and colors of a fancy pelargonium. All dark, crude colors have been carefully kept out; the flowers have white, buff and rose grounds. Splendid pot-plant. Pkt. 25 cts., 5 pkts. $1.

## NEW RED SUNFLOWER

The advent of a real Red Sunflower has been proclaimed by European and American growers for several years; but up to the present little has been accomplished in this line. To a professor of biology in Colorado belongs the distinction of this accomplishment. Working on Mendelian principles, he crossed a red Sunflower found by the roadside with a cultivated yellow variety, and after a period of three years produced some plants of a rich chestnut-red color; others red flowers tipped with yellow; others red-margined with yellow in varying widths. The plants vary in height from 6 to 7 feet, and throw out many side branches, all of which terminate with flowers 6 to 8 inches across, with large, long rays and small discs. A percentage of seed produces all yellow varieties which may be removed from the garden when the plants are growing, as they may be distinguished from the darker sorts by the stems which show green even in the young growth, whereas the other darker sorts show purple. While this variety is not as yet entirely *fixed*, it is a beautiful novelty, and we feel sure that while only a percentage of the plants will come true, and many show tips and discs of yellow, its marked advance will be appreciated by all lovers of this easily grown annual. Seeds may be sown in the open ground in May, and plants should be given at least 2½ feet to attain best development. Pkt. 25 cts., 5 pkts. $1.

## NOVELTIES AND SPECIALTIES IN FLOWER SEEDS, continued

GIANT DOUBLE-FLOWERING ZINNIA

**Sweet William, Scarlet Beauty.** An intensely rich, deep scarlet selection out of Pink Beauty, almost identical in color with the Poinsettia. A really grand advance. Pkt. 25 cts., 5 pkts. $1.

**Verbena, Helen Willmott.** This mammoth-flowering Verbena, introduced some years ago, is a splendid addition to this popular bedding plant. The flower is a pretty salmon-pink, with a white eye. Our grower assures us it is a perfected strain. Pkt. 25 cts., 5 pkts. $1.

## ZINNIA

### Giant Double-Flowering

This Zinnia is a wonderful improvement over the dwarf double-flowering for size of flower and general vigor of the plant. Trials of this Zinnia sowed in the open ground in April produced flowers 6 inches in diameter on plants 2 to 2½ feet high. A splendid companion to our Giant Double African Marigold, listed on the preceding page. If sown in the open ground in April, thin out as soon as the plants are well up, leaving at least 18 inches each way, as they are robust growers and require a large amount of space to attain maximum size.

| | Pkt. | Oz. |
|---|---|---|
| **Tall Giant Double White** | $0 25 | $2 00 |
| **Tall Giant Double Crimson** | 25 | 2 00 |
| **Tall Giant Double Yellow** | 25 | 2 00 |
| **Tall Giant Double Mixed** | 25 | 2 00 |

**Zinnia, Haageana Perfection.** This variety has been one of the most satisfactory border plants we have ever had the pleasure of seeing. Seed sown in the open, May 1, came into flower June 30, and continued blooming until frost. The plants are of dwarf, compact growth, 9 to 10 inches high and of the same width through, with fine foliage, and bear a mass of very double flowers about 1½ inches across and of a most unusual range of colors—rose-tipped canary-yellow, maroon-tipped cream, yellow, wallflower-red and garnet. Should prove excellent for filling baskets, vases, etc. Pkt. 15 cts., 2 pkts. 25 cts.

# NOVELTY SWEET PEAS

The following is a list of the best Novelty Sweet Peas introduced by American and European growers. We ask our patrons, in preparing their order of Sweet Peas, to refer to page 7, which contains our complete list of Spencer Sweet Peas under color classification.

**JESSIE CUTHBERTSON SPENCER.** The ground-color is a rich cream, overlaid with stripes and marblings of bright rose-pink. Both standard and wings are alike colored and the whole effect is bold and pretty. Pkt. of 25 seeds, 15 cts.

**HELEN PIERCE SPENCER.** This is a most attractive variety, the flower reminding one of the blue-mottled gloxinia. The ground-color is white, marbled and penciled with bright blue in thin lines on both wings and standard. Our grower recommends this as the first offering of a fixed strain of true Helen Pierce Spencer. Pkt. of 12 seeds, 25 cts.

**NEW MIRIAM BEAVER.** We were obliged to discard Miriam Beaver several years ago on account of its sportive character, but in the new Miriam Beaver the daintiest and most pleasing shade of pink in Sweet Peas has been realized. The color is rather hard to describe, but we think that a soft shell-salmon-pink on cream ground, lightly overlaid with soft hydrangea-pink would convey a good idea of its uniqueness. The color is evenly distributed over both standard and wings, and is very light and pretty. Pkt. of 12 seeds, 25 cts.

**ROBERT SYDENHAM.** One of the most distinctive colors introduced in the modern Sweet Peas. A bright orange-salmon, rather lighter than Stirling Stent and deeper than Barbara. Owing to our being able to secure only a very limited amount of seed, we can offer it only in small packets. Pkt. 25 cts.

**ROYAL PURPLE.** A rich royal purple, a color unique in Spencer Sweet Peas. This color is "self" throughout the life of the flower, and at no time does an objectionable blue-purple color show up. Pkt. of 20 seeds, 25 cts.

**VEILED BRIDE.** This variety might be termed a pink Helen Pierce Spencer. The wings and standard are alike colored. The ground-color is white, daintily flaked and marbled with soft rose-pink. Pkt. of 12 seeds, 25 cts.

**WEDGWOOD.** While this variety is strictly a novelty of last year, our grower assures us of a strain superior to most others offered. A clear, bright, silvery blue, with a faint suggestion of mauve in the standard; quite the best blue. A remarkable feature of this variety is that when cut and placed in water, the color brightens as the flower ages. Pkt. of 25 seeds, 15 cts.

**COLLECTIONS:**
**1 packet each of 7 varieties, 7 packets, for.....$1 25**
**3 packets each of 7 varieties, 21 packets, for..... 3 00**

Our list of Spencer Sweet Peas on page 67 we believe contains most of the finest varieties in commerce.

Many of the Flower Seeds offered on the preceding pages are novelties of this year's and several previous years' introduction. A few of our Specialties which are offered on those pages are also offered in the body of the flower-seed section of our catalogue. This is done so that our patrons who have not as yet been familiar with their merits may be encouraged to grow them this year. We are headquarters for the finest varieties of Dahlias, Gladioli and Montbretias, listed in the body of the catalogue.

# Giant Waved or Spencer Sweet Peas

In order to make it less difficult for the amateur or professional gardener to choose varieties according to color and shades, we have prepared the following classification of all Spencer Sweet Peas listed on pages 6 and 67 of our catalogue.

## White

| | Pkt. | Oz. | ¼lb. |
|---|---|---|---|
| **Etta Dyke.** Good white | $0 10 | $0 35 | $1 25 |
| **King White.** Finest white 5 pkts. $1.. | 25 | | |
| **White Spencer.** Fine white | 10 | 30 | 1 00 |

## Pink

| | | | |
|---|---|---|---|
| **Agricola.** Blush-pink, suffused lilac. 5 pkts. $1. | 25 | | |
| **Countess Spencer.** Bright pink | 10 | 30 | 1 00 |
| **Elfrida Pearson.** Magnificent pale pink | 20 | 50 | 1 50 |
| **Hercules.** A glorified Countess Spencer | 20 | 60 | 2 00 |
| **Florence Morse Spencer.** Blush-pink | 10 | 30 | 1 00 |
| **Juliet.** Salmon-blush on cream ground. 5 pkts. $1.. | 25 | | |
| **Lady Miller.** Pure salmon-pink; exquisite. 5 pkts. $1.. | 25 | | |
| **Margaret Atlee.** Warm salmon-pink; exquisite color | 20 | 60 | 2 00 |
| **Mrs. Hardcastle Sykes.** Beautiful blush-pink. 5 pkts. $1.. | 25 | | |
| **Mrs. Hugh Dickson.** Beautiful cream-pink.. | 15 | 50 | 1 50 |
| **Mrs. Routzahn.** Soft straw-color, tinted blush-pink | 10 | 35 | 1 25 |
| **New Miriam Beaver.** Soft shell-salmon-pink; will become a leader when better known. 5 pkts. $1.. | 25 | | |
| **W. T. Hutchins.** Blush-pink | 10 | 30 | 1 00 |

## Orange

| | | | |
|---|---|---|---|
| **Helen Lewis.** Orange-salmon-pink | 10 | 35 | 1 25 |
| **Thomas Stevenson.** Darker and more dazzling than Helen Lewis. Finest orange-scarlet | 20 | 60 | 2 00 |

## Salmon

| | | | |
|---|---|---|---|
| **Barbara.** Rich, glowing orange-salmon. 5 pkts. $1.. | 25 | | |
| **Robert Sydenham.** Rich orange-salmon, lighter than Stirling Stent, and deeper than Barbara. 5 pkts. $1.. | 25 | | |
| **Stirling Stent.** Glorious deep salmon | 15 | 50 | 1 50 |

## Scarlet

| | | | |
|---|---|---|---|
| **Scarlet Emperor.** Finest rich scarlet. 5 pkts. $1.. | 25 | | |
| **Vermilion Brilliant.** Brilliant scarlet | 20 | 60 | 2 00 |

## Crimson

| | | | |
|---|---|---|---|
| **King Edward Spencer** | 10 | 35 | 1 25 |

## Carmine

| | | | |
|---|---|---|---|
| **Captivation Spencer.** Rosy wine-color | 20 | 50 | 1 50 |
| **George Herbert Spencer.** Rosy carmine | 10 | 35 | 1 25 |

## Maroon

| | | | |
|---|---|---|---|
| **King Manuel.** Rich deep maroon. 5 pkts. $1.. | 25 | | |
| **Nubian.** Best maroon | 15 | 50 | 1 50 |
| **Othello Spencer.** Glossy maroon | 10 | 30 | 1 00 |

## Lavender

| | | | |
|---|---|---|---|
| **Asta Ohn.** Beautiful soft lavender | 10 | 35 | 1 25 |
| **Florence Nightingale.** Rich lavender, soft pinkish sheen; exquisite | 10 | 35 | 1 25 |

## Blue

| | Pkt. | Oz. | ¼lb. |
|---|---|---|---|
| **Margaret Madison.** Clear azure-blue; an exquisite variety | $0 20 | $0 60 | $2 00 |
| **Wedgwood.** Bright silvery blue, with a faint suggestion of mauve in the standard. 4 pkts. 50 cts.. | 15 | | |

## Mauve

| | | | |
|---|---|---|---|
| **Tennant Spencer.** A curious purplish mauve. | 10 | 30 | 1 00 |

## Purple

| | | | |
|---|---|---|---|
| **Captain of the Blues Spencer.** Pure purple; margin of petals marbled | 10 | 35 | 1 25 |
| **Royal Purple.** Our novelty of this year is considered the finest rich royal purple. 5 pkts. $1.. | 25 | | |

## Picotee-Edged

| | | | |
|---|---|---|---|
| **Dainty Spencer.** White ground, beautiful picotee edge of rose-pink | 10 | 35 | 1 25 |
| **Mrs. C. W. Breadmore.** Cream ground, beautiful picotee edge of pink | 15 | 50 | 1 50 |
| **Mrs. Townsend.** White ground, edged pale blue | 15 | 50 | 1 50 |

## Primrose

| | | | |
|---|---|---|---|
| **Dobbie's Cream.** Deep cream-yellow; exquisite. 5 pkts. $1.. | 25 | | |
| **Primrose Spencer.** Beautiful primrose | 15 | 50 | 1 50 |
| **Queen Victoria Spencer.** Opens blush and turns to clear primrose | 10 | 30 | 1 00 |

## Bicolor

| | | | |
|---|---|---|---|
| **Mrs. Cuthbertson.** The finest pink-and-white variety; standard rose-pink, wings white | 20 | 60 | 2 00 |
| **Blanche Ferry Spencer.** Good pink-and-white; standard rose, wings white | 10 | 30 | 1 00 |

## Fancies, Pastel Shades

| | | | |
|---|---|---|---|
| **Afterglow.** Standard bright violet-blue, shading to rosy amethyst; wings electric blue | 20 | 50 | 1 50 |
| **Charles Foster.** General effect of the flower is a mauve-pink | 20 | 60 | 2 00 |

## Striped and Flaked

| | | | |
|---|---|---|---|
| **America Spencer.** White ground, mottled and flaked crimson | 10 | 30 | 1 00 |
| **Aurora Spencer.** White ground, striped and flaked orange-pink | 10 | 35 | 1 25 |
| **Helen Pierce Spencer.** Ground-color blue, mottled and flaked blue. 5 pkts. $1.. | 25 | | |
| **Jessie Cuthbertson Spencer.** Ground-color rich cream, overlaid with stripes and marblings of bright rose-pink. 4 pkts. 50 cts... | 15 | | |
| **Loyalty.** Ground-color white, striped blue | 10 | 35 | 1 25 |
| **Senator Spencer.** Chocolate and seal-brown, striped and flaked on ivory-white | 10 | 30 | 1 00 |
| **Veiled Bride.** Daintiest pale pink, flaked rose-pink. 5 pkts. $1.. | 25 | | |

**COLLECTION: 1 pkt. each of 53 varieties, 53 pkts., $7.50**

# Recent Novelties and Specialties in Vegetable Seeds

## Bean, Masterpiece

A dwarf Green-podded Bean introduced in 1910 by Sutton & Sons. This Bean has few rivals in general all-round qualities. The plant is of splendid constitution, a quick grower and very prolific, the Beans attaining over 7 inches in size, tender, straight, entirely stringless, very meaty. As a quick grower, Masterpiece will be a desirable addition to the varieties adapted for pot-culture, and as an exhibition sort it has few equals. ½pt. 30 cts., pt. 50 cts., qt. 75 cts.

## Bean, Sure-Crop Stringless Wax

A valuable new variety of dwarf Wax Bean. The plant grows to medium size, and, having a strong, thick stem, stands up well even during a long season of stormy weather, thus protecting the pods from dirt and dampness. It is very productive, bearing in great abundance large, handsome, golden yellow pods which are stringless and tender at all stages of development. Being very hardy, the seed may be planted early. **Sure Crop** is more rust-proof and will stand a longer season of damp, wet weather than any other Wax Bean we know of. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., ½pk. $1.40, pk. $2.50.

## Cabbage, Copenhagen Market

The best of all early Cabbages. Stands longer without bursting than other early sorts. It is with pleasure and confidence that we offer this new early Cabbage, knowing it will give perfect satisfaction wherever grown, both as to quality and yield. Everyone familiar with the Cabbage knows the old and popular Danish Ballhead, the best of all the late Cabbages. This new extra-early variety, ripening with Charleston Wakefield, also originated in Denmark, and is as good, in its class, as the old favorite Danish Ballhead. The stem is short, the head round and solid. When ready for cutting, Copenhagen Market is the heaviest of the extra-early varieties, and if left until fully mature, frequently weighs eight to ten pounds. The leaves are small, compact and close to the head, so it will stand close planting. The inside is fine-grained, tender, pure white and compact. Will become a leader in the home garden and market. Pkt. 10 cts., ¼oz. 15 cts., oz. 50 cts., ¼lb. $1.40, lb. $5.

## Carrot, S. & W. Co.'s Improved Long Red Surrey

A great improvement on the various types of Long Orange Carrot, obtained by a careful selection for successive years of the best-formed and deepest-colored roots; it is larger, better flavored, of a deeper orange-color, and more certain to produce a crop than any type of long Carrot; flesh very sweet and tender; very productive, and never becomes hard or woody at the heart. The roots grow very regular and smooth; they are of good size, being from 6 to 8 inches in length and 2 inches in diameter at the top, tapering gradually from the shoulder to the tip of the roots. In color, shape and size this is the ideal sort for a market-gardener's late crop, and it will always bring the highest prices in market. On account of its prolific growth it will prove a most profitable Carrot. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

S. & W. Co.'s Invincible White Celery

## Carrot, Sutton's New Red Intermediate

This excellent Carrot needs no recommendation. It is handsome in form, and as it is of fine color and texture it is well suited for exhibition. In flavor this Carrot has no superior, and for all the purposes to which Carrots are put it will be found one of the most desirable ever listed. These qualities also commend it as a most profitable market variety, as Carrots of this type are always eagerly sought for and bring the highest prices. Pkt. 10c., oz. 25c., ¼lb. 75c., lb. $2.50.

## Corn, Early Mayflower

Is fully a week or ten days earlier than White Cory; and when we say that in size of ear, tenderness and sweetness of the kernels it is very noticeably superior to White Cory, we think we have said enough to indicate that the variety has distinct merits. The ears are long and well filled from tip to butt with large, tender, fine-flavored, white kernels. ½pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. $3.50.

## Celery, S. & W. Co.'s Invincible White

A Celery that has proved to be one of the best varieties for exhibition and culinary use. It can be grown for exhibition to enormous size without running to seed or losing its fine qualities. When prepared for the table, it is handsome in appearance and the stalks are crisp, tender, free from strings and of extra-fine flavor. Pkt. 25 cts., 5 pkts. $1.

## Leek, S. & W. Co.'s Exhibition

A splendid Leek for exhibition purposes. Thick, pure white stems. This Leek has been grown by a special grower, and is the finest it is possible to procure. It is of finer flavor than any Leek we have ever seen. Pkt. 25 cts., 5 pkts. $1.

## Lettuce, Reliance

This excellent Lettuce deserves to be largely grown. Of its many good qualities perhaps the best is the remarkably long time it will stand before bolting to seed, outlasting most other varieties in this respect. It is early, very hardy, and may safely be sown at any season. It makes a large, firm, compact Lettuce with almost an entire absence of loose outside leaves. The color is a pleasing pale green, the outer leaves slightly touched at the edges with a delicate tinge of red. Pkt. 15 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. $1.50.

## Selected Forcing Muskmelon, Sutton's Royal Jubilee

A splendid, oval, green-fleshed melon, raised at the Royal Gardens, Windsor. Skin almost white, handsomely netted. The flesh is tender and of the most exquisite flavor, while the seed cavity is small, and the melons ripen evenly clear to the skin. One of our patrons grew this melon and produced them *weighing nine pounds*. Our own seed is saved from specimen fruits. Pkt. of 25 seeds, 50 cts.

## Onion, Gigantic Gibraltar

This Onion, introduced some years ago by W. Atlee Burpee & Co., of Philadelphia, is worthy of a trial. Our observation of this variety is that while it does not come up to the ideal shape of Ailsa Craig, being somewhat more flattened, it seems to have a longer growing season. Has been exhibited at a number of the autumn flower shows this year; in some cases the Onions weighed three and one-half pounds, and were quite the largest we have ever seen. While this maximum size may be more easily attained in such sections as Lenox, Mass., comparative tests show that from an exhibition standpoint its longer period of growing warrants a trial against the favorite Ailsa Craig. It is somewhat similar in appearance to Prizetaker, except that it is lighter in color and, while larger in size, is a splendid keeper and of decidedly mild flavor. Intending exhibitors at the fall, 1915, flower shows should include this variety in their seed order. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb $2.50.

## Parsley, S. & W. Co.'s Exhibition Curled

This Parsley is recognized as a splendid exhibition sort. It is remarkable for its fine leaves and close habit. In flavor it is finer than that of any known root, and very tender. The seed offered has been saved from exhibition plants only, every one of which is a perfect specimen. For garnishing the exhibition table, this will be found one of the best. Pkt. 25 cts., 5 pkts. $1.

Early Pea, Little Marvel

## Parsnip, S. & W. Co.'s Selected

A splendid Parsnip for exhibition purposes. This variety, grown by a very successful exhibitor, was pronounced quite the best of five varieties sent for exhibition purpose. It is superb in form, of a beautiful pearly white color. Pkt. 25 cts., 5 pkts. $1.

## Perfection Pepper

One of the best for the home garden, both green and ripe. It is so smooth and uniform in shape that the skins can be easily slipped off after heating over a hot fire a few seconds or by boiling a few minutes in hot water. It can also be pared like an apple by using a sharp knife. The green Peppers can be pared best in this way. The hull or meat is from two to three times as thick as that of the Bell types, and yields about a half more edible product to the same measurement. The quality is very sweet and delicious and entirely free from pungency. In color, when ripe, it is a beautiful scarlet-red. It is very productive, yielding heavy crops until cut off by frost. The illustration taken from a photograph of an average-sized specimen, shows the general form of the Perfection. In consequence of the many superior and valuable qualities of this Pepper it will be much sought and grown by canners for pimentos, pickles and pulp. Pkt. 20 cts., ½oz. 40 cts., oz. 75 cts.

Perfection Pepper

## Early Pea, Little Marvel

A first-early Pea of the finest quality, better than American Wonder or Nott's Excelsior. The vines of dwarf, even growth average 15 inches high, and are heavily set with fine pods, usually in pairs. The pods average 2½ inches in length, are square at the bottom, and are well filled with quite large, deep green Peas. Ready for picking fully as early as American Wonder, but the pods are larger and the vines bear a much heavier crop. All who desire a fine crop of an early, choice variety of Peas will be delighted with Little Marvel. ½pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. $2.75.

## Potato, Early White Albino

This wonderful new early Potato is a good cropper. The skin and flesh are extremely white; of exceptionally good cooking quality and very prolific, fully as early as the old Early Rose in maturing, and particularly valuable for the early market by reason of its fine shape and early maturity. The vines grow erect, and it is one of the best early varieties to withstand blight and disease. Plant this Potato early in good soil and give it good cultivation, and pleasing results are sure at harvest time. One grand thing in favor of this early Potato is its great keeping quality. Pk. $1, ½bus. $1.90, bus. $3.50, bbl. $8.

## Spinach, New Zealand

This plant is grown to supply the place of the ordinary Spinach during the hottest months of the year, or in dry, arid localities where ordinary Spinach does not grow well. The seed is sown either in a hotbed or open ground during May, where the plants are to stand, and the plants will continue to yield a supply of leaves during the entire summer. The leaves are eaten boiled and minced like ordinary Spinach. It might be called "Cut-and-Come-Again" Spinach, as it is a continuous bearer. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. $1.

## Tomato, Sunrise

We have observed this Tomato grown in several different localities this past summer, and have been greatly impressed with its wonderful quantity and quality of fruit. It is as early as Chalk's Early Jewel and better for size. It sets freely from the base of plant, each truss having a large number of perfectly formed, brilliantly colored Tomatoes. Fruits smooth, of good form and size, very solid, and produce almost no seed. Pkt. 15 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. $1.75.

## Tomato, Bucks' Tresco

The disseminator of this variety (Bucks of England) claimed that it would revolutionize the Tomato industry. This has been demonstrated wherever it has been tried this past year. Every grower of Tomatoes for forcing should not hesitate to grow Bucks' Tresco. It is medium in size, proper in shape, of delicious flavor and a wonderful cropper. Pkt. of 25 seeds 25 cts., 5 pkts. $1.

Field of Improved Black Wax Beans

# Stumpp & Walter Co.'s Vegetable Seeds

It has always been our endeavor to list only such sorts of Vegetable Seeds as, from our tests, we have found to be of superior merit; and, while we have in many instances not listed certain varieties, which have been stricken out on account of being out of date, we have in every instance listed a superior sort which we can recommend as being most satisfactory both for the market- and home-garden.

**WE STRONGLY RECOMMEND ALL VARIETIES LISTED IN BOLD TYPE**

## ARTICHOKE

One ounce will produce 500 plants

**Large Green Globe.** The well-known French vegetable. The undeveloped flower-heads when properly prepared make a most delicious dish. Pkt. 10 cts., oz. 50 cts., ¼lb. $1.50.

**Jerusalem.** Roots, see page 36.

## ASPARAGUS

One ounce will plant about 50 feet of drill

**Conover's Colossal.** A mammoth green sort of the largest size and of good quality. The best of the old kinds. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 40 cts.

**Columbian Mammoth White.** A sport from Conover's Colossal. It produces pure white shoots and requires no artificial blanching. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts.

## ASPARAGUS ROOTS

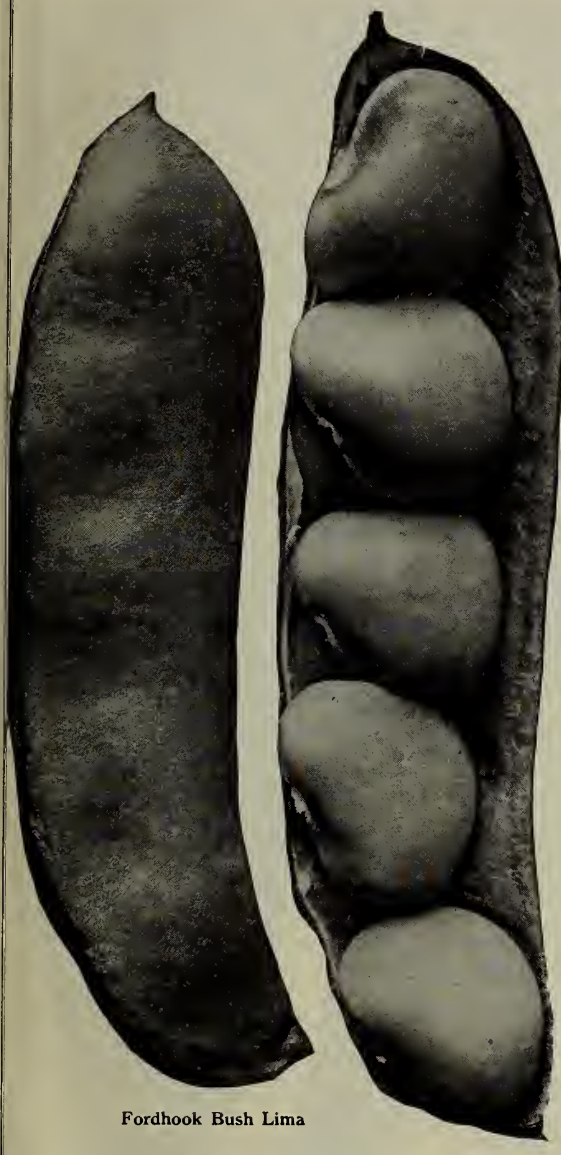
***Culture.*** The demand for Asparagus as an early spring vegetable is becoming quite popular. An Asparagus bed intended for family use can be quickly established by the planting of our **Mammoth Roots,** which should be set out in the spring in rich soil. Dig a trench about 2 feet deep and 1½ feet wide, and fill in to about one foot from the surface with well-rotted manure. On this put about six inches of good garden soil and lay the roots 18 inches apart, then fill up, leaving the crown about 4 inches below the surface. In placing the crown in the ground be sure to see that the roots are well separated, thus permitting them to become feeders in every direction. A good plan to follow is to have the rows about 4 to 5 feet apart, thus permitting of easy cultivation as soon as the Asparagus shows above the soil. To get best results, Asparagus should not be cut until the second year. A good method of cultivation is to work in a liberal supply of manure after the first spring cutting.

### Conover's Colossal, Columbian Mammoth White and Palmetto

| | 100 | 1,000 |
|---|---|---|
| Selected One-Year Roots, any of above varieties | $0 75 | $6 00 |
| Extra-choice Two-Year Roots, any of above varieties | 1 50 | 10 00 |
| Mammoth Three-Year Roots, any of the above varieties | 2 50 | 20 00 |

FORCING CROWNS, see page 35

Conover's Colossal Asparagus



Fordhook Bush Lima

# LIMA BEANS (Pole)

**One quart will plant 100 hills**

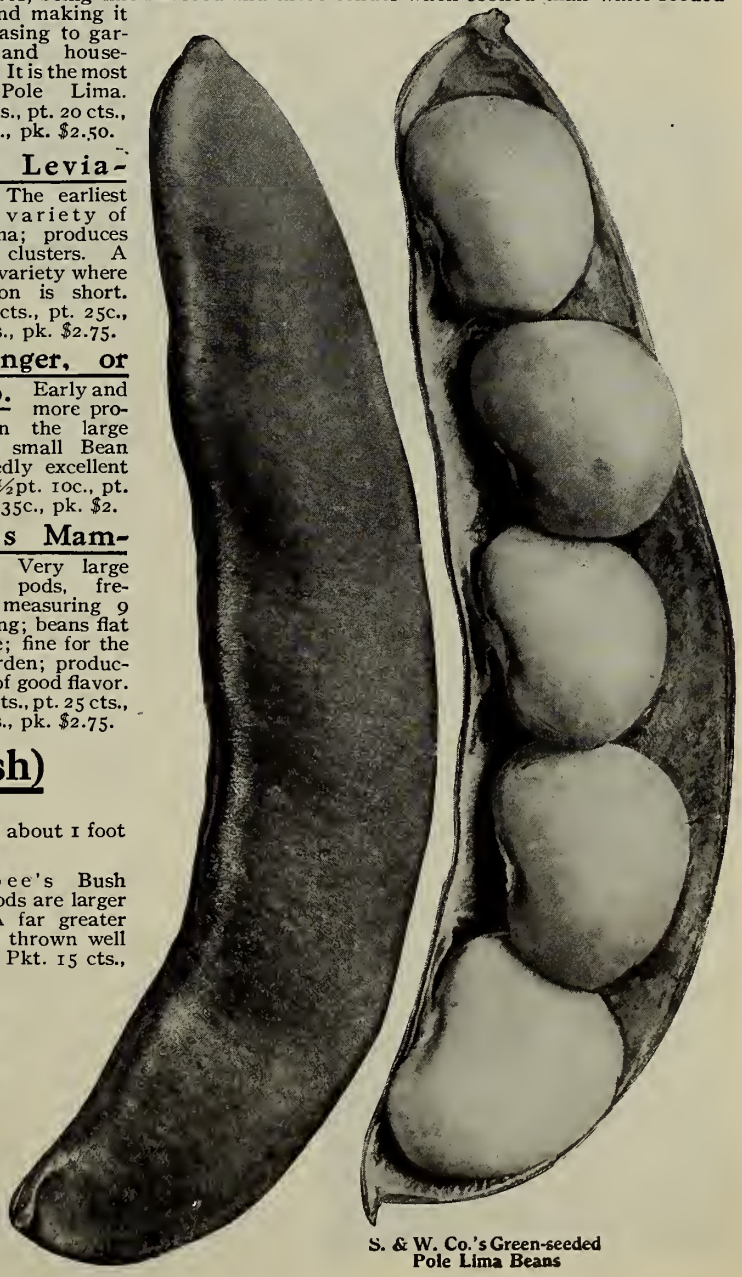
CULTURE.—Lima, or Shell Beans are not to be planted too early or they will rot; May 20 to June 1 in the latitude of New York is about right. Put five or six seeds in hills three to four feet apart each way, placing them edgewise with the eye downward and covering two inches deep. They require a pole seven feet high, and a nice warm loam. Pinch back when the vine reaches the top of the pole and the yield will be increased. They may be started early under glass in small boxes, and transplanted about the time the seeds are usually planted. Limas are the most popular table bean; surplus stock may be ripened and dried for winter use.

**S. & W. Co.'s Green-Seeded.** The vine is very strong, of vigorous growth, with many large runners or branches, producing a great many fine pods which are closely filled with large beans. In shape these beans are similar to Burpee's Improved. The pods contain from three to four beans, a large proportion containing four This is a broad-seeded Bean, much thicker than the ordinary Pole Lima. It is a plump, well-developed seed and comes nearer to having every bean perfect than any other Pole Lima. The green tint is a distinctive feature of this Bean, for it retains this tint in the dry state to a greater extent than usual, which indicates the fine qualities which it possesses, being fine-flavored and more tender when cooked than white-seeded Beans, and making it more pleasing to gardeners and housekeepers. It is the most perfect Pole Lima. Pkt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.50.

**Early Leviathan.** The earliest variety of Pole Lima; produces pods in clusters. A splendid variety where the season is short. ½pt. 15 cts., pt. 25c., qt. 40 cts., pk. $2.75.

**Challenger, or Potato.** Early and more prolific than the large Lima; a small Bean of decidedly excellent flavor. ½pt. 10c., pt. 20c., qt. 35c., pk. $2.

**Ford's Mammoth.** Very large pods, frequently measuring 9 inches long; beans flat and large; fine for the home garden; productive and of good flavor. ½pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. $2.75.



S. & W. Co.'s Green-seeded Pole Lima Beans

# LIMA BEANS (Dwarf Bush)

**One quart will plant 200 feet of drill**

Plant in light, rich soil, in drills 2 feet apart, dropping the seeds about 1 foot apart in the row and cover 2 inches.

**New Improved Bush Lima.** Similar to Burpee's Bush Lima except that pods are larger in size and are well filled with larger and thicker beans. A far greater producer, growth more vigorous, the blossom-bearing stalks are thrown well out of the foliage, and are ready for picking a full week earlier. Pkt. 15 cts., pt. 30 cts., qt. 50 cts., pk. $3.

**Fordhook.** A more erect form of the popular Challenger or Potato Lima, and ten days earlier. Both pods and beans are almost twice the size of the Kumerle or Dreer's Bush Lima. Pods measure 4 to 5 inches, frequently containing four fine beans of the finest flavor. Pkt. 15 cts., pt. 25 cts. qt. 40 cts., pk. $2.50.

**Henderson's Bush Lima.** Early and very productive. Pkt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.25.

**Burpee's Bush Lima.** A bush form of the large Pole Lima, the beans being large and flat like those of that variety. Productive and good. Pkt. 10c., pt. 20c., qt. 35c., pk. $2.25.

**Dreer's Bush Lima.** The bush form of Dreer's Improved Lima, the beans growing close together in the pods. Pkt. 10c., pt. 20 cts., qt. 35 cts., pk. $2.25.

# DWARF or BUSH BEANS

One quart will plant 200 feet of drill

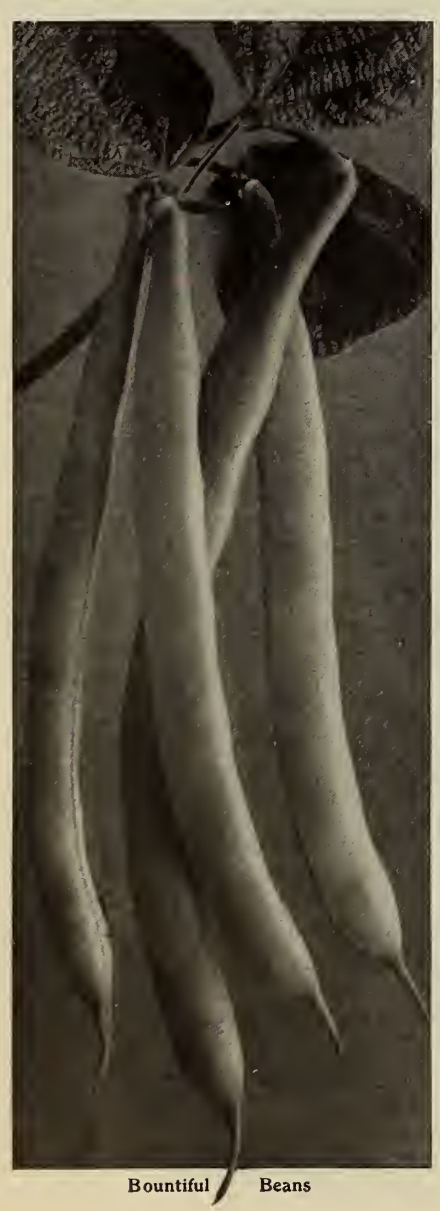
CULTURE.—Plant about the first of May in rows, placing the seeds 4 to 5 inches apart in drills and about 2½ inches deep. The rows should be about 2½ feet apart, and the soil slightly hilled, to insure good drainage and keep the Beans from touching the ground. Most Beans should be picked when about 4 inches long. Frequent pickings insure a more prolonged bearing season. Avoid jerking the plant, as this frequently disturbs young feeding roots. Use the finger-nails to sever the stems. Do not pick when bushes are wet, as this may cause blight and rust. For succession, plant every two weeks up to August 1.

## GREEN-PODDED BEANS

**Packets or half-pints of the following varieties, 15 cts. each, postpaid**

**Bountiful.** To this Bean belongs the distinction of being one of the best **flat, Green-podded Bush Beans;** very prolific and a continuous bearer from early spring to late fall. It is absolutely stringless, tender and of delicious flavor. Is as entirely stringless as the breeder has been able to make a flat, green-podded Bean. Its pods contain a little more fiber than Stringless Green-Pod of like age, but they average large and are entirely stringless until they become longer than 5 inches. By far the earliest of all the Bush Beans. Pt. 25 cts., qt. 40 cts., pk. $2.50.

**Stringless Green-Pod.** This Bean remains among the very best first-early round-podded Bush Beans. A very free bearer; entirely stringless, averages 5 inches long and is slightly curved. A handsome sort, borne on a healthy plant which stands dry weather well. Pt. 20 cts., qt. 35 cts., pk. $2.25.



Bountiful Beans

**Giant Stringless Green-Pod.** Pods greatly resemble those of Stringless Green-Pod. Fully an inch longer in size but not quite so early. A variety that is largely grown for the market on account of its size and splendid shape. Splendid sort for succession when planted with Stringless Green-Pod. Pt. 25 cts., qt. 40 cts., pk. $2.50

**Black Valentine.** A Bean which has been planted extensively in the South on account of its heat-resisting qualities. Matures early, producing long, round, straight pods, which are tender when quite young. Few Beans are greater yielders. Pt. 25 cts., qt. 40 cts., pk. $2.50.

**Early Red Valentine.** This variety is valuable on account of its earliness. Pods very fleshy, round and saddle-backed, with slight strings. Bushes grow uniformly about 15 inches in height and produce a large crop. Pt. 20 cts., qt. 35 cts., pk. $2.25.

**Early Long Yellow Six Weeks.** The pods are flat, 6 inches long; light green; very little flesh; inclined to become stringy; splendid flavor if picked early. Pt. 20 cts., qt. 35 cts., pk. $2.25.

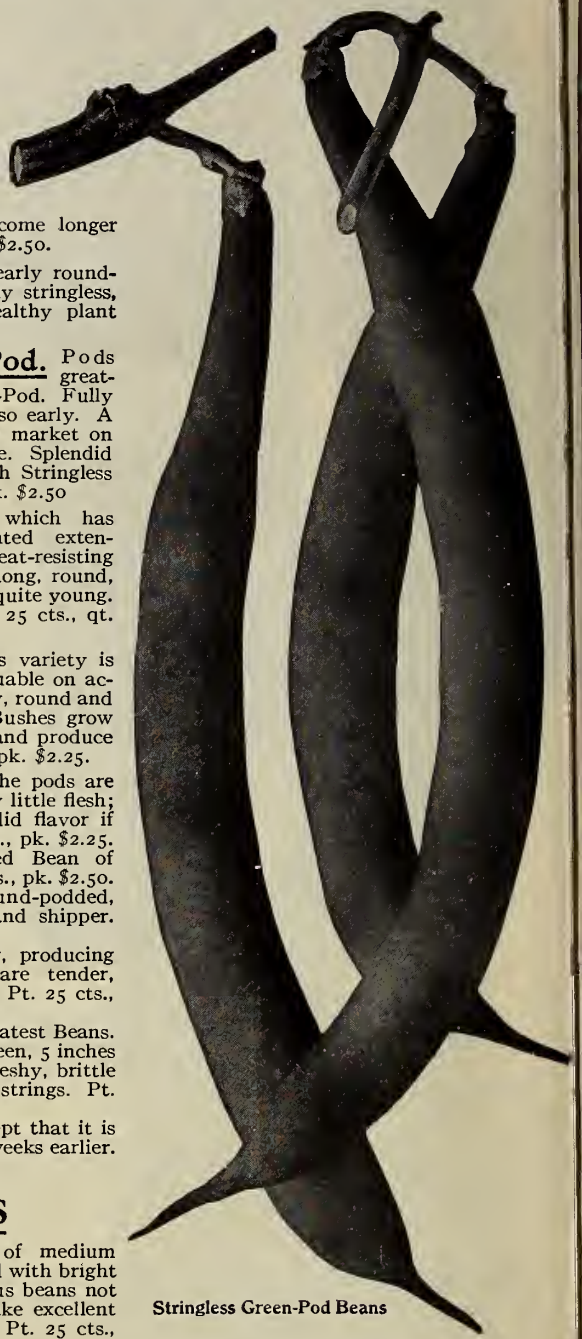
**Early Mohawk.** Early, flat-podded Bean of sturdy growth. Pt. 25 cts., qt. 40 cts., pk. $2.50.

**Full Measure.** A splendid, round-podded, stringless Bean. A good keeper and shipper. Pt. 25 cts., qt. 40 cts., pk. $2.50.

**Longfellow.** An extra-early variety, producing long, round, green pods which are tender, brittle and stringless when young. Pt. 25 cts., qt. 40 cts., pk. $2.50.

**Refugee, or 1,000-to-1.** One of the latest Beans. The pods are nearly round, light green, 5 inches long, tapering to a slender point; fleshy, brittle and mild in flavor, with but slight strings. Pt. 25 cts., qt. 40 cts., pk. $2.50.

**Refugee.** Similar to the above, except that it is ready for picking ten days to two weeks earlier. Pt. 20 cts., qt. 35 cts., pk. $2.25.



Stringless Green-Pod Beans

## SHELL BEANS

**Dwarf Horticultural.** Pods are of medium length, cylindrical, curved, splashed with bright red on a yellowish ground. Surplus beans not needed for use during summer make excellent soup or baking beans for winter. Pt. 25 cts., qt. 40 cts., pk. $2.50.

**Large White Kidney.** An excellent shell variety; fine for baking. Pt. 25c., qt. 40c., pk. $2.50.

## FORCING BEAN, S. & W. CO.'S WONDER

The finest Forcing Bean. Of good color, fine flavor and everything that can be expected in a good table Bean. One of our customers says regarding this Bean: " The beans you gave me to try are a wonder. I sowed them February 3 in a solid bed without bottom heat, and picked from them March 20. The Beans average 5 to 6 inches, the vine is a very abundant bearer, and as for eating, I think it is the best Bean I have ever eaten." ½pt. 20 cts., pt. 35 cts., qt. 60 cts.

New Kidney Wax Beans

# DWARF or BUSH WAX-PODDED BEANS

**One quart will plant 200 feet of drill**

**New Kidney Wax.** More robust in growth and more prolific than the popular Wardwell's Kidney Wax, with longer pods, which are more handsome in appearance, entirely stringless, more fleshy, and of much finer quality. The plants are of erect bush habit, reaching 18 to 20 inches in height. Even during wet summers the foliage is entirely free from blight, while the pods are free from rust, which badly affects many of the older varieties. The fleshy pods are flattened in form, from 6 to 7 inches in length, one-half inch broad and three-eighths of an inch thick; the color is a rich lemon-yellow. Under ordinary field culture the plants produce nearly twice the as many pods as the Wardwell's. The pods are remarkable for their meatiness, fine flavor, brittleness and absolute freedom from strings or tough fiber. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., ½pk. $1.40, pk. $2.50.

**New Hodson Wax.** A distinct type of excellent quality, bearing enormous quantities of tender, fleshy pods of a creamy yellow color. The plant is vigorous, and comes into crop about two weeks later than the early sorts. The pods of this variety often measure 7 to 8 inches in length, and are remarkably free from spot or rust. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., ½pk. $1.40, pk. $2.50.

**Improved Black Wax.** Perfectly round pods; very early and a good yielder. A Bean that is extensively grown and does not leave much to be desired as an early wax-podded sort. Pkt. 15c, pt. 25c., qt. 40c., ½pk. $1.40, pk. $2.50.

**Brittle Wax.** Without a doubt the earliest of all Wax Beans; also a great cropper. The bushes are remarkably hardy and extremely prolific, while the pods are fleshy and entirely stringless, often measuring 4½ to 6 inches long. They are broad and solid, tender, brittle and entirely stringless at all stages of growth. The pods have white seeds showing only a small black dot at the eye and where a surplus is allowed to fully ripen they make excellent shell beans. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., ½pk. $1.40, pk. $2.50.

**Improved Golden Wax.** Very early; flat, golden pods. Pkt. 15 cts., pt. 20 cts., qt. 35 cts., pk. $2.25.

**Davis Wax.** A very hardy and productive variety, desirable where a wax-podded, white-seeded midseason sort is wanted. Vines very vigorous. Pods invariably long, 6½ or 7 inches, light yellow, straight and handsome and when young are crisp and tender. Seed medium large, kidney-shaped, clear white and excellent for baking. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., ½pk. $1.40, pk. $2.50.

**Wardwell Kidney Wax.** Extra early; long, flat, pure waxy pods. Pkt. 15 cts., pt. 20 cts., qt. 35 cts., pk. $2.25.

## ENGLISH BROAD BEANS

**Broad Windsor.** The largest of the English Broad Beans, very tender and delicious. Pt. 20 cts., qt. 40 cts., ½pk. $1.25, pk. $2.

# POLE or RUNNING BEANS

**One quart will plant 200 hills**

## Wax- and Green-Podded Varieties

**All packets contain a half pint, at 15 cents, postpaid**

**Improved Kentucky Wonder** (**Old Homestead**). An improved sort of this well-known Bean. The pods are entirely stringless and of silvery green color, hanging in large clusters from top to the bottom of the pole. One of the most prolific. Pt. 25 cts., qt. 40 cts., ½pk. $1.40, pk. $2.50.

**Golden Cluster.** This is certain to be the leading early Wax Pole Bean, as it is fully two weeks earlier than Golden Champion Wax. Pods are tender and of fine flavor. Pt. 25 cts., qt. 40 cts., ½pk. $1.40, pk. $2.50.

**Horticultural,** or **Speckled Cranberry.** Pods are tender and of excellent quality; good as a snap as well as a shell bean. Pt. 25 cts., qt. 40 cts., ½pk. $1.40, pk. $2.50.

**Lazy Wife.** The best late, green-podded Pole Bean. The pods are of a medium dark green; broad, thick, very fleshy and entirely stringless. Pt. 25 cts., qt. 35 cts., ½pk. $1.25, pk. $2.25.

**Scarlet Runner.** Bright scarlet flowers. Both used as a string and a shell bean. Pt. 20 cts., qt. 35 cts., ½pk. $1.25, pk. $2.25.

**White Dutch Runner.** Beans large; flat pods. Pt. 25 cts., qt. 40 cts., ½pk. $1.40, pk. $2.50.

# BEETS

**One ounce will sow 100 feet of drill; 5 to 6 lbs. to the acre**

CULTURE.—Seed should be sown the latter part of April. The ground should be spaded well and deep, placing rows about 18 inches apart, and the drills 1 inch deep. Cover the seed carefully and firm in the ground by walking over the drills. When seedlings appear about 3 inches above ground, thin out to about 4 inches between the plants so as to give ample room for the proper development of the bulbs. Beets are best for pulling when about 2 inches in size. Successive sowings may be made up to the middle of July.

## Five Best Beets

**Eclipse.** An extra-early sort which produces Beets sixty days from sowing. Of uniform, dark rosy red; flat globe-shaped; easily pulled. Flesh, dark purplish red with rose zones; remains in table condition for ten days, when it becomes rather tough. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

**Crosby's Egyptian.** One of the most widely grown turnip-shaped Beets in cultivation today. Will produce Beets ready for pulling within two or three days after Eclipse. The smooth, dark red roots are topped with light green foliage, which is prominently speckled with dark red. The flesh is carmine with white zones, and of uniformly sweet quality. Pkt. 10c., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

**Detroit Dark Red.** Extended experience has shown that this Beet comes nearer the ideal than any, and where one variety is used this should be the first selection. The round, dark red globe roots are uniformly smooth. The flesh of the very young Beets is almost black-red, turning to dark crimson with dark purple zones as the Beets grow larger. When cooked, the Beets are of an appetizing dark red and very sweet. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

Detroit Dark Red Beet

**Crimson Globe.** A splendid midseason sort. In about seventy days from planting one-fourth of the Beets in the Crimson Globe row will be ready for table use. A peculiarity of this and the next variety is that the Beets do not all come to the eatable size at the same time, some growing faster than others, thereby lengthening the period of perfection. Flesh bright red with light purple zones. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

**Model Red Globe.** A splendid-shaped Beet, about the same season as Crimson Globe. This forms symmetrical roots of dark red, that are models of smoothness. It grows quickly past the 2-inch size, and is good for a week to ten days in the overgrown stage. It differs from Crimson Globe in having almost purplish crimson flesh with little indication of zones. Pkt. 15 cts., oz. 25 cts., ¼lb. 60 cts., lb. $2.

## Other Good Beets

**Bassano.** A good early turnip Beet; tender and juicy; flesh white and rose. Sown late, it keeps well into winter. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.25.

**Extra-Early Egyptian.** Grows extra quickly, producing flat, smooth turnip-shaped roots averaging 2 inches in diameter. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.25.

**Edmand's Blood Turnip.** Very regular in shape; deep blood-red and exceedingly sweet. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.

**Half-Long Blood.** An entirely distinct variety. The roots are symmetrical, somewhat pear-shaped, smooth and handsome; flesh a rich, dark red, very sweet, never becoming woody. Pkt. 15 cts., oz. 10 cts., ¼lb. 20 cts., lb. 60 cts.

## Sugar Beets and Mangels

See Root Crops, page 36.

# CHICORY

## Witloof, or French Endive.

The principal use of this variety in America is as a winter salad, and it is most delicious served with French dressing and eaten like Cos lettuce. The seed thould be sown in the open ground not later than June, in drills 12 to 18 inches apart, thinning out the plants so that they will not stand closer than 3 inches. The plant forms long, parsnip-shaped roots, which should be lifted in the fall, cutting off the leaves about 1½ inches from the neck and shortening the roots by cutting off the bottoms to within 8 inches of the neck. The roots should then be planted in a trench 16 to 18 inches deep in a dark, warm cellar or under a greenhouse bench, and placed upright about 1½ to 2 inches apart, which will allow the neck of the root to come within 9 inches of the level of the trench. The trench should be filled with a light soil, and if a quicker growth is desired, this can be accomplished by a mulch of fresh manure about 2 feet deep. It requires about one month to force the roots, and the heads are cut off with a small portion of the neck of the root attached. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Common,** or **Wild** (Barbe de Capucin). This is the variety from which is obtained the French salad, *Barbe de Capucin.* The roots should be transplanted into sand in a warm cellar. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. $2.

**Large-rooted Madgeburg.** Cultivated for the roots. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.50.

**For French Chicory,** or **Endive,** see page 21.

Chicory, Witloof

# BRUSSELS SPROUTS

**One ounce will produce about 3,000 plants**

CULTURE.—Sow in May, in shallow drills, 1 inch deep and 12 inches apart. Transplant in July. When the crown, or top sprout is beginning to head, pinch it out, to admit of the whole strength being thrown into the side shoots. Very hardy. This is a delicious vegetable and should find a place in every garden; greatly improved by hard frosts.

**Improved Dwarf.** Compact heads of best quality. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. $2.

**S. & W. Co.'s Favorite.** New. Semi-dwarf, thickly covered with sprouts by the end of September; excellent. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts.

# CHERVIL

**One ounce will sow 150 feet of drill**

CULTURE.—The curled Chervil is cultivated like parsley and used for garnishing and flavoring soups and salads.

**Moss Curled Extra.** Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.25.
**Turnip-rooted.** Pkt. 10 cts., oz. 35 cts.

# CRESS, OR PEPPER GRASS

**One ounce will sow 100 feet of drill**

CULTURE.—This popular salad should be sown early in the spring. The leaves are crisp, tender, and sharp in flavor. Sow at short intervals for succession, as it soon runs to seed.

**Curled,** or **Pepper Grass.** Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.

**True Erfurt Water Cress.** Pkt. 10 cts., oz. 35 cts., ¼lb. $1.

Famous Early Conical Cabbage

# CABBAGE

**One ounce will produce about 3,000 plants**

CULTURE.—Sow the early kinds in September, in shallow drills, 6 to 8 inches apart. When large enough to handle, transplant into a coldframe. Sow also in hotbeds in February and March, and in the open ground in April and May. The late varieties for fall and winter use sow in May, and transplant from the 8th to the 25th of July. Plant the early sorts 20 inches distant in a row and 2 feet between the rows; the later sorts 2½ feet each way. To be well grown, Cabbages require a deep, rich loamy soil. Our Cabbage seed is especially grown for us on Long Island, and we offer it as being of superior quality.

**S. & W. Co.'s Famous Early Conical.** An extremely early variety of conical form, quite distinct from any other on the market. An ideal variety for private garden, producing solid hearts sooner than other varieties and requiring less space than most kinds. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. $1.50.

**Early Spring.** A new extra-early Cabbage, with a round, flat head, coming in with the Early Jersey Wakefield, and yielding one-third more on the same space of ground than any other extra early. Heads are of uniform size and are very solid when young. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. $1.20.

**Improved Early Jersey Wakefield.** While this variety is not quite so early as S. & W. Co.'s Famous Early Conical, it has been long considered as the best early conical-type Cabbage which we have. The heads are hard and solid with just a few outside leaves, which are unusually thick, enabling them to stand cold weather when wintered in coldframe. Pkt. 10c. ½oz. 20c., oz. 30c., ¼lb. 85c.

**Charleston, or Large-Type Wakefield.** This type of Cabbage retains all the characteristics of the Improved Early Jersey Wakefield with the added advantage of greater size, where large-sized Cabbage is wanted in this type, either for market or private use. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. $1.

**Danish Drumhead.** Averages much larger size than the Ballhead; is about two weeks earlier; fine-grained, sweet-flavored, and the best Cabbage for winter use. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. $1, lb. $3.50.

**Succession.** A splendid second-early, round-headed sort, with enormous heads of exceedingly tender quality. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. $1.

**Autumn King.** We believe this to be one of the finest strains of Cabbage ever offered. It produces regular, even heads of enormous size. Pkt. 5 cts., ½oz. 20 cts., oz. 30 cts., ¼lb. 85 cts.

**Early Flat Dutch.** A valuable early market variety, heads weighing about 10 pounds. Pkt. 5 cts., ½oz. 15 cts., oz. 25 cts., ¼lb. 75 cts.

**Early Summer.** Superior second-early variety; produces solid heads of fine quality. Pkt. 5 cts., ½oz. 15 cts., oz. 25 cts., ¼lb. 75 cts.

**Large Late Drumhead.** Very large, solid heads; standard variety for winter use. Pkt. 5 cts., ½oz. 10 cts., oz. 20 cts., ¼lb. 60 cts.

**Large Late Flat Dutch.** Without exception the best variety in cultivation for winter use; produces immense heads of the finest quality; splendid keeper. Pkt. 5 cts., ½oz. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. $2.

## Red Cabbage

**Mammoth Rock Red.** This is by far the best, largest and surest-heading Red Cabbage ever introduced. The plant is large, with numerous spreading leaves. The head is large, round, very solid. Pkt. 5 cts., ½oz. 20 cts., oz. 30 cts., ¼lb. 85 cts.

## Savoy Cabbage

**American Drumhead Savoy.** None of the late-growing varieties can begin to equal in flavor this sort for family use; heads large. Pkt. 5 cts., ½oz. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.25.

**Early Dwarf Ulm Savoy.** A very early and superior dwarf variety of fine quality. Pkt. 5 cts., ½oz. 10 cts., oz. 20 cts., ¼lb. 50 cts.

Selected Chantenay Carrots

# CARROT

One ounce will sow 100 feet of drill

CULTURE.—To produce the finest crop, the land should be thoroughly manured the previous season; forked roots will result if the seed is sown on freshly manured soil. Sow the early sorts in March and April, in drills 1 inch deep and 14 inches apart; thin out to 6 inches. For main crop sow in May or beginning of June. Care should be taken, at all times, to see that soil is firm over the seeds, either by means of the feet, roller, or garden drill.

**Selected Chantenay.** A very splendid type of the half-long, stump-rooted Carrot. Averages 6 to 7 inches in length, broad at the neck, narrowing gradually to a blunt end. The flesh is rich orange-red, free from core, tender, fine flavored, and of excellent table quality. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Selected Danvers.** A handsome, cylindrical-shaped Carrot of good size and stump-rooted. It is of a rich, dark orange color, grows to large size, is smooth, and has little core. It is a first-class Carrot for all soils, yields a greater weight per acre than any other variety, and is more easily harvested than the old long varieties. This selected stock we are now offering has been specially grown for market-gardeners and is sure to give satisfaction. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.

**S. & W. Co.'s Improved Long Red Surrey.** A great improvement on the various types of Long Orange Carrot obtained by a careful selection, for successive years, of the best-formed and deepest-colored roots. It is larger, better-flavored, of a deeper orange color, and more certain to produce a crop than any type of long Carrot; flesh very sweet and tender; very productive, and never becomes hard or woody at the heart. The roots grow very regular and smooth; they are of good size, being from 6 to 8 inches in length and 2 inches in diameter at the top, tapering gradually from the shoulder to the tip of the roots. In color, shape or size, this is the ideal sort for a market-gardener's late crop. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Sutton's New Red Intermediate.** This excellent Carrot needs no recommendation. It is handsome in form, and as it is of fine color and texture, it is well suited for exhibition. Pkt. 15 cts., oz. 30 cts., ¼lb. $1, lb. $3.50.

**Early Scarlet Horn.** Favorite for early crop but not large. Sold largely in New York markets, bunched. It matures eight to ten days earlier than the Long Orange, and is sometimes used for forcing. Per pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.75.

**Early French Forcing.** The earliest variety and the one largely grown for forcing purposes. It makes a small, almost globe-shaped root of an orange-red color. Per pkt. 15c., oz. 30c., ¼lb. $1, lb. $3.50.

**Early Half-Long Scarlet Nantes.** The skin is smooth, flesh red, and without any core or heart. It is excellent for forcing, and for fine quality and perfect shape can hardly be surpassed. Per pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. $2.25.

**James' Intermediate.** This is certainly the best main crop Carrot. It is one of the most uniform in shape that we know, and where the soil is favorable, it will always grow clean and free from side roots. The core is small and very tender, and there is no indication of woody character at any stage of its growth. It is also entirely free from any coarse, rank flavor so common with many sorts. For private purposes it is ideal, and its yielding capacity is enormous, which, with its handsome color and fine appearance, makes it invaluable to truckers. Per pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50

**Long Orange Improved.** One of the most desirable for either garden or field culture. Per pkt. 5c., oz. 15c., ¼lb. 50c., lb. $1.50.

**Oxheart, or Guerande.** A French variety of recent introduction and a decided acquisition. It is intermediate between Half-long and Horn varieties, and perfectly distinct. The shape is nearly oval and the color and quality all that can be desired. Per pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Selected Long Orange Improved.** One of the most desirable for either garden or field culture; it grows to a large size, fair specimens averaging 12 inches in length and 3 inches in diameter at the top. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. Per pkt. 10 cts., oz. 25 cts., ¼lb. 80 cts., lb. $3.

S. & W. Co.'s Best of All Cauliflower

# CAULIFLOWER

**One ounce will produce about 3,000 plants**

CULTURE.—Sow the first week in May and prick out on a rich piece of ground, transplant in July. For wintering under glass sow in the second and last weeks in September; transplant thickly into a cold pit or frame; give plenty of air in mild weather, and cover up well in very severe. Again sow in February in a hotbed and transplant in April. For Cauliflower the ground should be well prepared by trenching, incorporating at the same time a good share of rotten manure. Select new ground, if possible, as Cauliflower rarely succeeds on ground which has been cropped year after year with other kinds of vegetables. Plant in rows 20 inches apart and 2 feet between the rows.

**S. & W. Co.'s Best of All.** Easiest grown, surest header. It is of very dwarf, erect habit, with short outer leaves. Can be planted less than 2 feet apart each way. It is a sure header, every plant forming a large, solid, perfect head, of the finest table quality. Pkt 25 cts., ⅛oz. $1, ¼oz. $1.75, oz. $6.

**Danish Dry Weather.** This new variety of Cauliflower is specially adapted for sections subject to long dry seasons, as it will grow well and produce the finest heads in spite of the lack of moisture, which is required by other sorts. The heads grow to a large size, are very solid, pure white and of delicious flavor. It will prove valuable for growing in the southern states, where the climate is hot and long seasons of dry weather are experienced. Pkt. 15 cts., ¼oz. $1, ½oz. $1.75, oz. $3.

**Early Dwarf Erfurt.** This Cauliflower is an extra-early sort, of dwarf habit, and desirable for forcing or planting in the open ground. Pkt. 10 cts., ¼oz. 75 cts., ½oz. $1.25, oz. $2.

**Veitch's Autumn Giant.** Pkt. 10 cts., oz. $2.

**Selected Early Snowball.** This comes next to our Best of All. A sure-heading variety of dwarf habit, with short outer leaves, adapted for forcing under glass during winter and spring. Pkt. 15 cts., ¼oz. $1, ½oz. $1.75, oz. $3.

# CELERY

**One ounce will produce 3,000 plants**

CULTURE.—Sow the seed in a coldframe or dry border as early as the ground can be worked, in drills 8 to 10 inches apart, covering the seed ¼ inch deep. When fairly out of the seed-leaf, they may be transplanted to another bed or thinned out to 5 or 6 inches apart, and let them grow until wanted for transplanting out into the beds or trenches. Early in July is the proper time to set out the plants in the trenches, or as soon after early July as possible; best results generally are obtained by setting out immediately after a rain. The trenches should be shallow, and wide enough to hold one or two rows. These rows should be 1 foot apart and the plants set about 8 inches apart in the row. As the plants grow, they should be earthed up to blanch them, care being taken not to let the earth get into the heart of the plant. For keeping over the winter, they can be either banked up with earth and covered over with litter to protect from frost where they have grown, placing boards on top to keep out the rain; or they may be taken up and blanched in a box in the cellar for winter use.

Paris Golden Self-Blanching Celery

## BEST 4 CELERIES GROWN

### Paris Golden Self-Blanching.

(Grown in France by the originator.) This strain of Celery somewhat resembles the White Plume variety, but is much superior. It is entirely free from the green type and does not grow soft or pithy as most strains of Self-Blanching do. Rich golden yellow, solid, and a splendid Celery for family or market-gardener's use. A very early variety and is acknowledged to be the best and most profitable Celery grown. Pkt. 20 cts., ¼oz. 40 cts., ½oz. 65 cts., oz. $1.25, ¼lb. $4.50, lb. $16.

**Improved White Plume Celery** is the most popular, as it is not necessary to bank up as is the case with other Celeries. It is tender and of the very best flavor, also presents a very ornamental appearance on the table. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. $1, lb. $3.50.

**Perfection Heartwell.** The finest and largest of the winter sorts, either for the family or market-garden. The heart is golden yellow, and its crisp tenderness and delicious flavor are unequaled. Pkt. 5c., oz. 20c., ¼lb. 60c., lb. $2.

Winter Queen Celery

**Winter Queen.** This is without doubt the most valuable variety of Celery for winter and spring use ever introduced, even excelling the celebrated Perfection Heartwell as a late winter keeper. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream-white. Ribs perfectly solid, crisp and of a delicious nutty flavor. It is worthy of first place as a late Celery, and will keep longer than any other variety. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. $1, lb. $3.50.

## Several Good Standard Celeries

**Covent Garden Red.** A splendid dark rose variety; large and of nutty flavor. Makes a handsome appearance on the table, and is very desirable. Pkt. 10 cts., oz. 50 cts., ¼lb. $1.75.

**Giant Pascal.** This is a selection from the Golden Self-Blanching Celery. The stalks are very large, thick, solid, and crisp. It has a fine nutty flavor, and is free from any trace of bitterness. It blanches with but slight earthing up and retains its freshness a long time after being marketed. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.50.

**Improved Golden Heart.** A selection from the old favorite Golden Heart Celery. Grown extensively for private use as well as for market. Improved Golden Heart is one of the finest late varieties. The heart, when blanched, is a rich golden yellow. Pkt. 5 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**CELERY SEED.** This seed is not for sowing, and is used mainly for flavoring pickles, etc. Fresh and clean. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 90 cts.

## CELERIAC (Turnip-Rooted Celery)

CULTURE.—A variety of celery with turnip-shaped roots, which are white-fleshed, tender and possess the flavor of celery stalks. Sow the seed in the open ground in April and treat the young plants the same way as celery.

**Large Smooth Prague.** Very large and fine; roots of superior quality. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. $2.

**Erfurt Giant.** Very large and smooth root. Pkt. 5 cts., oz. 20 cts.

Sweet Corn, Metropolitan

Half-pints, Corn, postpaid
One quart will plant 200 hills

# SUGAR CORN

Add 5 cents per pint and 10 cents per quart, if wanted by mail

CULTURE.—Plant for succession of crops every three weeks, from April to July, in hills three feet apart each way, and six seeds in a hill; cover about half an inch; thin out to three plants.

## EXTRA-EARLY VARIETIES

**Golden Bantam.** One of the sweetest Corns grown; the plant attains a height of only 3 to 4 feet, usually bearing two or more ears to the s alk. The ears are compactly filled with kernels which when ready for the table are cream yellow. Golden Bantam is one of the hardiest Corns grown, therefore can be planted earlier with safety than other varieties. This characteristic also adapts it to localities having cool summer weather, a continuous supply being maintained by successive plantings. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.25.

**Peep-O'Day.** One of the earliest of Sweet Corns. Grows about 3½ feet high. Bears nearly always two ears on a stalk, which measure about 5 inches in length and are well filled. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.25.

**Howling Mob** Is ready for use only three to five days later than the extra-early Cory when both are planted at the same time, but the ears are much larger in size, while the grains are much whiter and sweeter. As an early variety of large size, we cannot too highly praise Howling Mob. Pkt. 10 cts., pt. 20 cts., qt. 30 cts., pk. $2.25.

**Metropolitan.** It is safe to say that there never has been on the market any one variety of Corn that combined the essential features of earliness and good flavor in a satisfactory degree. In these important characteristics, Metropolitan certainly outclasses any other variety. ½pt. 15c., pt. 25c., qt. 40c., pk. $2.

**Extra-Early Evergreen.** Ten days earlier than the standard variety. ½pt. 10 cts., pt. 15 cts., qt 25 cts., pk. $1.50.

**Minnesota.** One of the earliest; ears small, but of fine quality. ½pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. $1.25.

**Cory Early** (Red Cob). The Cory is undoubtedly the earliest of all, and the very best extra-early Sweet Corn. Those desiring a first-early variety can make no mistake in planting the Cory. ½pt. 10 cts., pt 15 cts., qt. 25 cts., pk. $1.25.

**Perry's Hybrid.** Very early; ears of large size; valuable for market purposes. ½pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. $1.25.

**White Cob Cory.** An extremely early variety, usually fit to use in from fifty to sixty days from seed sowing. A sport or selection from the famous "Red Cob Cory" which for years held popular favor as the best first early. "White Cob" Cory retains all of the qualities of its parent, with the added merit of having a white cob and white kernels. ½pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. $1.75.

## MEDIUM-EARLY VARIETIES

**Stowell's Evergreen.** Now recognized everywhere as a standard variety, both for home use and market, and is the general favorite. The ears are of large size, grains deep, exceptionally tender and sugary, and has the advantage of remaining longer in the green state than any other. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best of all medium sorts. ½pt. 10 cts., pt. 20 cts., qt. 30c., pk. $2.

**Crosby's Early Sugar.** Standard early sort; ears good size; fine quality. ½pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. $1.25.

**Early Mammoth.** Very large and tender; similar to the Standard Mammoth variety, but much earlier. ½pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. $1.50.

## LATE VARIETIES

**Black Mexican.** Very sweet and of fine flavor; grains black. ½pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. $1.50.

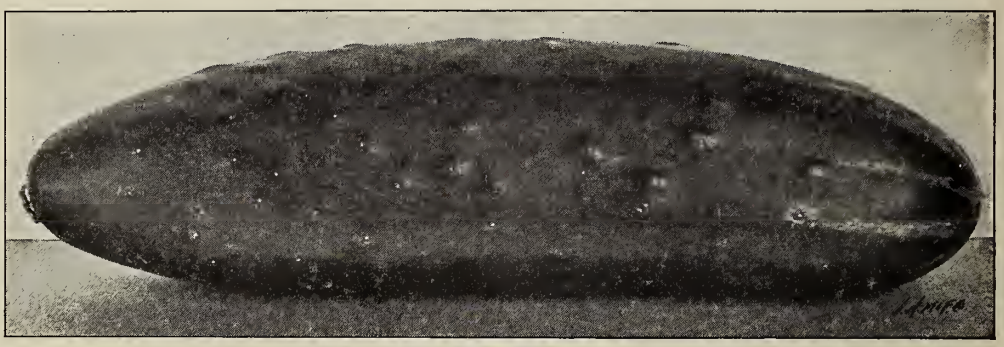
**Late Mammoth.** Immense ears and very sweet. ½pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. $1.50.

**Country Gentleman.** The Country Gentleman Corn retains its delicate tenderness and flavor even when a little old, as the ears are encased in a heavy husk, which tends to keep the ear "in the milk" for several days longer than other corns. The cob is unusually small and the pearly white kernels of great depth. ½pt. 10c., pt. 20c., qt. 40c., pk. $2.

# CUCUMBER

One ounce will plant about 50 hills

CULTURAL DIRECTIONS.—The first planting should be made early in May, on partly spent hotbeds; inverted sods form an excellent medium for both planting on and carrying the young plants to their permanent location, or small paper pots can be used. Such plantings are usually ready for transplanting to the open ground in from three to four weeks, and are seldom troubled with the striped bug. Transplanting, when practical, should be done in the evening, into hills 4 feet apart each way. Thin out to about four plants to a hill when established. The seed may be planted in hills late in May, thus giving a succession. For pickles, plant during the last two weeks of June. Plaster dust, or an infusion of hellebore powder in water, will destroy the striped bug.



New Klondyke Cucumber

**New Klondyke.** This is a hybrid sort of the White Spine type, which holds its dark green color longer than most other sorts. Averages 6 to 7 inches in size; ends are quite square and it is about 2 inches thick. Its extreme earliness, combined with its prolific and hardy qualities, makes it a very desirable variety for either market or private use. An excellent sort for slicing. When small, this variety is also an excellent pickling sort. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Fordhook Pickling.** One of the best and most prolific varieties for producing pickles of medium size for both home or market use. Vines are very vigorous, yielding a large number of fruits; remaining in strong, healthy, growing condition longer than any other known variety. The skin is very tender and remains so when pickled. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

**New Davis Perfect Cucumber.** In color, a dark, glossy green; shape slim and symmetrical, with an average length of 10 to 12 inches. The quality is fine, as the seeds are very soft when the Cucumber is fit for table use. The flesh is very tender and brittle, and of exceptionally good flavor. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. $2, 5 lbs. $8.

**Cool and Crisp.** An excellent pickling or slicing Cucumber, of good size, tender and crisp; very early and exceedingly prolific. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts.

**Early Green Prolific.** This sort can be used for slicing, but is best for pickling on account of its uniform small size. Pkt. 5 cts., oz. 20 cts., ¼lb. 75 cts.

**Extra-Long Green.** A well-known standard variety about 1 foot in length, of most excellent quality, and when young makes the best of pickles. When ripe it is the best of any for sweet pickles. Vines vigorous and very productive. Our strain of this valuable sort is unsurpassed by any, being carefully selected from the best fruits. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts.

**Improved Early White Spine.** The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth and of deep, rich coloring marked with distinct white lines at the blossom end. Will retain its color longer after pickling than most varieties, and is splendid as a table Cucumber. Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts.

**Japanese Climbing.** Well adapted for pickling, as well as for slicing for salads. The great advantage of this variety lies in the fact that it can be trained on a pole or fence. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts.

**White Wonder.** The best white sort; it ripens early and is very productive. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts.

## English Forcing Varieties

**S. & W. Co.'s Improved Telegraph.** A very dark green type of Telegraph Cucumber, which we have found, from our trials, to be superior of all other Telegraph varieties. Pkt. 25 cts.

**Royal Osborne.** Very prolific and of deep, rich green color. Pkt. 25 cts.

**Carter's Model.** A very handsome variety, of fine form, with general characteristics of Tender and True, with the prolific habit and strong constitution of the Telegraph. Pkt. 25 cts.

**Lord Kenyon's Favorite.** A very fine variety. Pkt. 25 cts.

Cool and Crisp Cucumbers

# CORN SALAD

One ounce will sow 150 feet of drill

CULTURE.—Sow early in the spring, in drills, 1 inch deep and 10 inches apart. For main crop sow in August and September.

**Large-seeded.** Pkt. 5 cts., oz. 10 cts., ¼lb. 30c., lb. 60c.

# DANDELION

One ounce will sow about 100 feet of drill

CULTURE.—Sow in May, in drills 10 inches apart; thin out to 3 inches apart; cultivate during the season, and in the following spring the plants will be fit for use.

**French Garden.** Pkt. 5 cts., oz. 25 cts., ¼lb. 75 cts.

# GARLIC

One pound will plant 200 feet of drill

CULTURE.—Garlic is used for a variety of flavoring purposes. Plant the sets 6 inches apart in rows 1 foot apart. As soon as the leaves have turned, the crop is matured, and may be harvested like the onion.

**Garlic Sets.** Lb. 30 cts.

OUR ENGLISH FORCING CUCUMBER SEED IS SELECTED FROM BEST CUCUMBERS

## EGGPLANT

**One ounce will produce about 1,000 plants**

CULTURE.—Sow in a hotbed in February and March; when the plants are 1 and 2 inches high, transplant, or thin out, to 2 or 3 inches apart. When the weather is warm and settled, they may be planted out in a warm situation, 2 feet apart each way.

**Black Beauty.** Very much on the style of New York, only darker and smoother. Pkt. 10 cts., ½oz. 25 cts., oz. 45 cts., ¼lb. $1.50.

**Black Pekin.** Produces very handsome jet-black fruit of superior quality. Pkt. 5 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**New York Improved Spineless.** Extensively cultivated for both market and family use; it grows to a large size; very prolific and fine-flavored. Pkt. 5 cts., oz. 35 cts., ¼lb. $1.

## ENDIVE

**One ounce will sow 200 feet of drill**

CULTURE.—One of the most attractive of all autumn and winter salads. It is commonly known in restaurants as Chicorée, and is especially refreshing when served with lettuce with plain French dressing. Sow seed from middle of June till last of August. When the plants are fully grown, tie all the outside leaves together, over the heart, to blanch the inner leaves, which will take about a week. Do not tie up when the leaves are wet, as they will then decay.

**Green Curled.** Is the hardiest variety and has deep green leaves, that are finely crinkled and curled. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.

**White Curled.** Very tender when cut young; blanches readily. Very similar to Green Curled, but the leaves are naturally of a light golden tint, and they do not have to be tied up to blanch them for table use. Flavor very good. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts.

**French Moss Curled.** A heavier and more dense plant than Green Curled; very finely curled. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts.

**Broad-leaved Batavian (Escarolle).** Broad, thick leaves with rounded ends, much larger in size and not deeply fringed like the preceding sorts. This is used in its natural state as a salad, and also like spinach. Pkt. 5 cts., oz. 15 cts., ¼lb. 50c., lb. $1.50.

## KALE

**One ounce will produce about 300 plants**

CULTURE.—Sow in May in shallow drills, 10 or 12 inches apart; when large enough, transplant singly in rows 24 in. apart each way.

**Dwarf Green Curled Scotch.** Very dwarf and spreading; one of the best. Pkt. 5 cts , oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

**Siberian Kale,** or **Sprouts.** Should be sown in September and treated like spinach; it is fit to cut early in spring. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

**Dwarf Brown Kale.** A beautiful curled variety, with spreading foliage; very hardy and of fine flavor. Pkt. 5c., oz. 10c., ¼lb. 25c., lb. 75 cts.

## MARTYNIA

The seed-pods are used for pickling, when gathered young and tender. Sow in open ground in May, in hills 3 feet apart each way, or in hotbed and afterwards transplant.

**Martynia proboscidea.** Pkt. 10 cts., oz. 30 cts., ¼lb. 85 cts.

Green Curled Endive

Broad-leaved Batavian Endive

## KOHLRABI

**One ounce will sow about 200 feet of drill**

CULTURE.—This is a very delicious vegetable, and is increasing in popularity rapidly; combines the good qualities of the turnip and cabbage, but excels both in nutritive and productive qualities. Cooked the same as turnips, they are very tender and palatable. Sow in spring in rows 18 inches apart, and thin away the plants to 8 inches.

**Early White Vienna.** The earliest and best for either market or family use. Pkt. 5 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Early Purple Vienna.** Similar to the preceding, except in color, which is of a bluish purple. Pkt. 5c., oz. 30c., ¼lb. 85c., lb. $3.

**Earliest Selected** (for frames). A variety with few and small leaves; can be planted very closely; very useful for general culture and indispensable for forcing. Pkt. 10 cts., oz. 50 cts., ¼lb. $1.25.

## LEEK

**One ounce will sow about 100 feet of drill**

CULTURE.—Sow the seed very early in a seedbed in a sheltered place, if possible. When plants are about 6 inches long transplant them to trenches 6 inches deep, with very rich soil at the bottom. Fill up the trenches as the plants grow, and later draw soil up to them. As a result you will have fine, large Leeks blanched half a foot long, which may be kept all winter if dug up with the roots on and stored in moist sand in the cellar.

**S. & W. Co's. Exhibition.** This is by far one of the best, long, blanched varieties we have ever offered. Seed furnished several prominent exhibitors in vegetable classes this past fall pronounced quite the best they have grown. Pkt. 25 cts., 5 pkts. $1.

**Large Carentan.** **(Winter.)** A very hardy variety of extra-large size; the leaves are fan-shaped, of a dark green color, the edible stem is 6 to 8 inches long and 3 inches in diameter. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.50.

**Large American Flag.** The largest and most desirable, either for market or family use. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

**Large Rouen.** Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

## MUSTARD

**One ounce will sow 75 feet of drill**

CULTURE.—As an ingredient, the green Mustard imparts a delightfully pungent flavor to the various forms of prepared salads. For early crops the seed may be sown in a hotbed, in March, and for general crop at frequent intervals through the spring, in drills from 8 to 12 inches apart.

**White London.** The best variety for salads; the seed is used also medicinally and as a seasoning for pickles. Oz. 5 cts., ¼lb. 10 cts., lb. 25 cts.

**Black,** or **Brown.** An esteemed sort for culinary use. Oz. 5 cts., ¼lb. 10 cts., lb. 25 cts.

**Giant Southern Curled.** Very large leaves. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 50 cts.

**New Chinese.** Leaves twice the size of the ordinary white Mustard; stems more succulent, of deeper green; flavor pleasantly sweet and pungent. Pkt. 5 cts., oz. 15 cts., ¼lb. 20 cts., lb. 60 cts.

# LETTUCE

One ounce will sow 150 feet of drill

CULTURE.—Sow early in spring in a hotbed; transplant in April for summer use. Again, sow from April at intervals in the open ground, and for winter and spring use in August and September. Protect by means of a coldframe during winter. When sown for cutting, the seed may be put in rather thick, in rows or broadcast; but to have finer heads, it should be sown thinly in rows, and transplanted a foot apart into rich soil.

Big Boston Lettuce

## TEN FINE LETTUCES

A suggestion in one of our prominent garden periodicals has given Ten Fine Lettuces for the amateur gardener to grow, whose garden-space is small, and where crisp Lettuce is desired from April to October.

**Early Curled Simpson.** A splendid curly-leaved sort. Seed sown in the coldframe about the middle of March and transplanted about the middle of April will supply the table from May until the middle of June. Pkt. 5c., oz. 15c., ¼lb. 30c., lb. $1.

**Golden Queen.** A small variety of compact habit, forming yellowish green heads. Seed may be sown about the middle of April outdoors, giving Lettuce in about six weeks, just a few days before May King and about a day or so after Wayahead. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Wayahead.** Large and fine. Very similar to May King described below. If seed is sown about the same time as Golden Queen it will likely mature a few days sooner, but usually make a looser head. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**May King.** Unquestionably one of the best all-round, early, outdoor Lettuces. Does remarkably well in cold or wet weather, forming solid heads of bright green, the edges of the center leaves tinged reddish brown, the heart is clear yellow and of ideal flavor. If sown the same time as Wayahead, Golden Queen will be ready about four to five days later. This variety is sown in August for fall use. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. $1.75.

**California Cream Butter.** The largest and latest of the early varieties of this type named in this list. If sown the same time outdoors as the three preceding will mature about ten days to two weeks later. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Big Boston.** A splendid Head Lettuce, perhaps the most generally and favorably known of the ten mentioned here. Forced in frames to great extent in the spring and is also planted in August for late crop. Does not do well for midsummer use, but as a fall or early spring Lettuce is one of the best. Large heads; center crisp and of fine flavor. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.

**All-Seasons.** May be described as a black-seeded Deacon. A good heat-resister. If sown early in May will produce fine, buttery Lettuce from the latter part of June to the latter part of July. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. $1.75.

**Iceberg.** A splendid, crisp head sort for the summer. Few Lettuces resist the heat better. Has strong center ribs, which bend toward the heart of the plant, keeping it thoroughly blanched. Repeated sowing from early May, of this sort and New York, or Wonderful, at intervals of three weeks should supply the table well up to September 1. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. $1.75.

**New York, or Wonderful.** This variety grows considerably larger than Iceberg and matures about ten days later. The outer foliage is a distinct, dark green as compared with the yellowish green of Iceberg. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. $1.50.

**Crisp as Ice.** Perhaps the least known of the three remarkable crisp-head varieties. The hardiest of all the Lettuces, sometimes remaining in the garden until Thanksgiving. Heads somewhat globe-shaped and of an unattractive dark green and bronze-color; the heart, however, is splendid. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Grand Rapids Forcing.** There is no better forcing variety among the curled-leaved sorts than the Grand Rapids, and it is quite as good for outdoor culture as many others. Large, beautiful leaves; crisp and tender. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.25.

**Black-seeded Simpson** (Loose Head). A popular curly-leaved sort, similar to Curled Simpson, except that it is larger in size. Pkt. 5 cts., oz. 15 cts., ¼lb. 30 cts., lb. $1.

**Black-seeded Tennisball.** Forms a close, hard head with few outer leaves. Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

**Boston Market.** (Butterhead.) Solid, crisp and compact; one of the best for forcing. Pkt. 5 cts., oz. 15 cts., ¼lb. 30 cts., lb. $1.

**Immensity.** (Butterhead.) A very large, nearly smooth-leaved variety that succeeds well in a cool location. Pkt. 10 cts., oz. 25 cts., ¼lb. 90 cts., lb. $3.

**Mammoth Black-seeded Butter.** A large Head Lettuce of splendid quality, much lighter in color than Big Boston. Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

**Mignonette.** Heads small, compact; leaves slightly curled, edges tinted brown. Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

**Salamander Perfected.** (Butterhead.) An excellent summer variety that is grown largely by the market-gardener on account of its heat-resisting qualities. Grows to large size, with tightly folded leaves covering the center, which blanches a light golden. Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

## COS or ROMAINE LETTUCE

A very distinct type of Lettuce, the plants being of upright growth.

**S. & W. Co's. Giant White.** Although this fine Cos Lettuce attains a large size, the immense heart is crisp, tender and excellent; habit quite self-folding. A splendid early sort. Pkt. 25 cts., oz. 75 cts.

**Paris White Cos,** or **Romaine.** A splendid sort for summer use, leaves quite erect. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.25.

**Trianon Self-closing Cos.** Long, narrow leaves; very tender and crisp. Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

Muskmelon Admiral Togo

# MUSKMELON

**One ounce will sow about 80 hills**

CULTURE.—Sow the seed in April under hand glasses, and in the open air in May in hills six feet apart each way. Plant in each hill from 8 to 10 seeds, covering half an inch deep. When the plants have produced their rough leaves, thin out to three plants. The hills should be prepared by trenching in rotten manure and sand. As soon as the plants make their appearance above ground, dust them with soot, charcoal dust or wood ashes, to prevent the ravages of the bug.

**Admiral Togo.** This is an orange-fleshed Netted Gem, or Rocky Ford. We have developed in the Admiral Togo a small muskmelon with the very thick, orange flesh and splendid quality of the Defender, and possessing the characteristic netting, shape, size and shipping quality of Netted Gem or Rocky Ford. Combining all the good qualities of these two fine varieties we believe the Admiral Togo is an ideal table and basket melon. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. $2.50.

**Selected Emerald Gem.** The skin is a rich deep green smooth, flesh salmon-color and of delicious flavor. A very early and prolific variety and one that is very extensively grown for family use. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. $2.50.

**S. & W. Co.'s Selected Stock, Rocky Ford.** This famous variety is the finest early green-fleshed Melon in cultivation. The fruits are remarkably uniform in size, weighing from one and a quarter to one and a half pounds each. They are quite thick meated, with very thin rinds; skin light green, regularly ribbed and heavily netted, turning to a golden yellow as the Melon ripens. Flesh light green in color, firm but melting, of uniformly fine flavor. Pkt. 10 cts., oz. 30 cts., ¼ lb. $1.

**Delmonico.** Oval; deeply netted; large size; orange flesh. Pkt. 10 cts., oz. 30 cts., ¼ lb. $1.

**Extra-Early Hackensack.** Large, round and of fine quality; a standard variety. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts.

**Jenny Lind.** Small, but very early; green flesh. Pkt. 5 cts., oz. 15 cts., ¼ lb. 40 cts.

**Long Island Beauty.** On style of Hackensack, but earlier and finer in quality, and the most beautiful Muskmelon. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts., lb. $1.25.

**Hoodoo.** A new orange-fleshed variety, ideal as a shipping Melon and of the very finest quality. Vine vigorous, remarkably blight-resisting and very productive. Fruits uniformly of medium size. Netting exceptionally fine and dense, extending practically over the entire surface. Rind thin yet very firm, so that the Melons arrive in perfect condition in distant markets. Flesh very thick, firm, highly colored, of fine texture and delicious flavor. Pkt. 5 cts., oz. 15 cts., ¼ lb. 40 cts., lb. $1.50.

**Paul Rose.** This new red-fleshed Melon is exceedingly sweet and highly flavored, and in it are combined all the good qualities of the Netted Gem and Osage, the varieties from which it originated. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts.

**Tip Top Melon.** The most productive melon known; good for early or late, having a sweet, juicy fine flavor; solid flesh (but not hard) and eatable to the outside coating. The fruit is of large size, nearly round, evenly ribbed and moderately netted. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

## English Frame Varieties (Imported Seed)

| | Pkt. |
|---|---|
| **Sutton's Invincible Scarlet Flesh** | $0 25 |
| **Blenheim Orange** | 25 |
| **Eastnor Castle Green Flesh** | 25 |
| **Sutton's Perfection Pale Green Flesh** | 25 |
| **British Queen** | 25 |

Kleckley Sweets Watermelon

# WATERMELON

**One ounce will plant about 50 hills**

CULTURE.—Treat the same as muskmelon, except that they should be planted 8 to 10 feet apart, according to variety.

**Cole's Early.** A most delicious and productive variety for the family garden, succeeding in northern states, where melons were never matured before. The flesh is of a beautiful bright red color, crisp and extremely delicate in texture—that granulated, cool, sparkling appearance that is so captivating to the eye; in flavor it is lusciously sweet and refreshing, no pithiness or stringiness. Pkt. 10 cts., oz. 20 cts., ¼lb. 30 cts., lb. $1.

**Kleckley Sweets.** **The sweetest of all the Watermelons.** Fine-flavored and grained, tender meat. Fruits are large size; rind very thin and green, very brittle; flesh scarlet and firm, and a variety everyone should grow. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $2.50.

**Kolb's Gem.** Largely grown in the South for shipment to northern markets; it has no equal as a shipping melon; the fruit is nearly round; rind dark green, somewhat marbled with lighter shades. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 50 cts.

**Citron.** Round and handsome; used for preserves. Our strain of this variety is very fine; fruits uniformly large. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 60 cts.

**Tom Watson.** A large, long melon similar in shape, color and splendid quality to Monte Cristo, but averaging larger in size and with a tougher rind. Vines vigorous and productive. Flesh rich red, sweet and tender. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. $2.

# MUSHROOM SPAWN

**Ten pounds will spawn 10 feet square**

CULTURE.—Mushrooms are easily grown, with a little care and attention, under a square shed, portion of a cellar, or any dark, dry place. Collect a quantity of fresh horse droppings, throw them into a heap, leaving it until it commences to ferment, then turn it over and mix it up well, and place it where you intend to make the bed, spread it regularly about 18 inches thick, tread firmly and level the bed. Leave this to heat for a few days and as soon as the heat drops to 90 degrees make holes in the bed, about a foot apart each way, into which put pieces of the spawn about the size of an egg, fill up the holes with the compost. Beat the surface level, afterward keep it dry, and the Mushrooms will make their appearance in about five or six weeks. When the first crop has been taken, give the bed a good watering leaving it as before, when they again will make their appearance. Beds can be made at any time of the year, and as one declines another should be made, to keep a constant supply. The spawn should be kept in a cool, dry place. When gathering, remove the stalks; do not cut them or they will rot and breed maggots.

Bed of S. & W. Co.'s Pure Culture Mushroom Spawn

## American Pure-Culture Spawn

**Ten pounds will spawn 10 square feet**

This type produces larger Mushrooms than the English, coming into bearing somewhat earlier, and continuing to crop for a long time. This spawn is produced by selecting spores from individual specimen Mushrooms, and is propagated and transferred to the bricks of manure, which, when planted, produce Mushrooms all of one type.

**Per Brick** (about 1½ lb.) 30 cts. **Per 10 Bricks,** $2.40.
**Per 25 Bricks,** $5. **Per 100 Bricks,** $15.

## Best English Spawn

Fresh from a celebrated maker in England. Made in bricks of about 1 pound each.

**Per Brick** (about 1 lb.) 20 cts. **Per 10 Bricks,** $1.80.
**Per 25 Bricks,** $3.75. **Per 100 Bricks,** $12.

# ONIONS

One ounce for 100 feet of drill
5 to 6 pounds per acre

CULTURE.—Sow in rich, sandy soil, in drills 1 foot apart, as early as possible in the spring, cover with fine soil and firm well, either with roller or back of spade. When plants are strong enough, thin out to 3 or 4 inches. The finest Onions are produced by sowing the seed in a hotbed early in February and transplanting seedlings to the open ground 6 inches apart.

**S. & W. Co.'s Selected Ailsa Craig.** This Onion continues to be one of the largest, when stock is good and if sown early. It is a very handsome, oval-shaped variety, with pale straw-colored skin. Two of these Onions have been exhibited in England that weighed eight pounds, and in some parts of Massachusetts it attains a weight of three pounds four ounces. For exhibition it is unexcelled, and a more shapely bulb than the Prizetaker. To attain its largest size it should be sown in the greenhouse in January and transplanted to the open in April. For a large Onion it is a splendid keeper, and for those who like an Onion raw we recommend it highly on account of its mild flavor. The Onions in the illustration below were grown from our seed, and weighed slightly over three pounds each. Pkt. 10 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. $1.75.

**Large Red Wethersfield.** This is the standard red variety, and a favorite Onion in the East, where immense crops are grown for shipment. Bulb large, somewhat flattened, oval shape; skin deep purple-red; flesh purplish white, moderately fine grained and stronger flavored than any of the other kinds. Very productive, the best keeper, and one of the most popular for general cultivation. It is more inclined to form large necks if planted on unsuitable soil than the Danvers, but is the best variety on poor or dry soil. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.75.

## STANDARD ONIONS

**Prizetaker.** Grows uniform in shape; is of immense size, measuring from 12 to 16 inches in circumference, while under special cultivation specimen bulbs have been raised to weigh from four to six pounds each; its pure white flesh is fine-grained, mild and delicate in flavor. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.75.

**Early White Welsh.** This kind does not form a bulb but is one of the best kinds for green Onions. The plants are perennial, but may be treated as annuals. Sow seed where the plants are to stand, in April or early May. Cultivate to keep down the weeds, and in three months' time the first cuttings of the leaves may be made, which are excellent for seasoning, having a strong onion flavor. This is a distinct variety of the Welsh Onion, with pinkish white coats, silvery white at top. Pkt. 10 cts., oz. 20 cts., ¼lb. 75 cts.

**White Pickling.** When matured, the tops die down, leaving beautiful and perfect little bulbs. The color is pure white, flavor mild and delicate, perfectly adapted for pickling and table use; and makes a pretty bunch Onion, especially if grown by the transplanting method. A valuable variety. Pkt. 5 cts., oz. 25 cts., ¼lb. 70 cts., lb. $2.50.

**White Portugal,** or **Silver Skin.** A mild-flavored variety, used extensively for pickles. The Onions are tender and altogether fine. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.75.

**Yellow Globe Danvers.** Of more globular shape than the preceding; splendid keeper, producing well-rounded bulbs about 2½ inches in diameter; skin light golden yellow; flesh white, crisp and mild in flavor. One of the best known Onions, and one of the best for general crop. Pkt. 5 cts., oz. 15 cts., ¼lb. 45 cts., lb. $1.60.

Ailsa Craig Onions

# ONIONS

One ounce for 100 feet of drill, five to six pounds for one acre

## S. & W. Co.'s Perfect Globe-Shaped

**S. & W. Co.'s Southport White Globe.** Yields abundantly, producing handsome and uniformly globe-shaped bulbs. The flesh is firm, fine-grained and of mild flavor. To produce the beautifully white Onions, so much sought in every market, one must, first of all, have good seed. Second, grow them well on rich land. Third, exercise great care in harvesting and curing the crop. In Southport, they "cord" up the Onions in long rows, the bulbs on the inside, and cover with boards so that the bulbs in the open air are well protected from rain or dew, which would be sure to discolor them. We have, by years of careful selection and breeding, developed a strain which has no equal in uniformity and beauty of shape and color. Pkt. 10 cts., oz. 25 cts., ¼ lb. 80 cts., lb. $3, 5 lbs. $14.

**S. & W. Co.'s Southport Yellow Globe.** This is probably the finest all-round sort grown. The enormous quantities annually shipped to market prove its popularity, and it is more largely grown than any other variety. We take unusual precautions to maintain the highest degree of perfection in our stock, and can confidently claim superiority for it. The bulbs are large and uniformly spherical, with very small necks; the largest diameter is below the center of the bulb. The color is a rich orange-yellow; enormous yielders and splendid keepers. No Onion-grower can afford to plant inferior seed when such as this can be procured. Per pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. $1.75, 5 lbs. $8.

**S. & W. Co.'s Southport Red Globe.** Very similar to Wethersfield in color, having a deep red skin, but differing in shape, being almost a perfect globe. Size large, flesh fine-grained, mild and tender. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. $1.75, 5 lbs. $8.

**Collection**

**One packet each, three varieties Globe Onion, RED, WHITE, YELLOW, for 25c.; one oz. ea., three varieties, 60c.**

S. & W. Co.'s Perfect Globe-Shaped Onions

# ONION SETS

## The Reason for Planting Onion Sets

Our Globe Onion Sets will produce Onions much earlier than by sowing the seeds, which frequently permit the planter to sow another crop on the land the same year. For green or bunch Onions, sets will produce a crop in half the time it takes to raise them from seed. Plant Onion Sets and Tops near the surface in drills 12 inches apart and 4 inches in the rows. They require the highest culture to obtain the best results.

| | Qt. | ½pk. | Pk. |
|---|---|---|---|
| **White Onion Sets** | $0 30 | $1 10 | $2 00 |
| **Yellow Onion Sets** | 30 | 1 10 | 2 00 |
| **Red Onion Sets** | 30 | 1 10 | 2 00 |
| **White Multiplier Onion Sets** | 25 | 90 | 1 75 |
| **Yellow Potato Onion Sets** | $0 25 | $0 90 | $1 75 |
| **White Potato Onion Sets** | 25 | 90 | 1 75 |
| **Shallots** | 30 | 1 10 | 2 00 |
| **Egyptian Top Sets** | 25 | 90 | 1 75 |

Globe Onion Sets

## OKRA, or GUMBO

One ounce will sow about 100 feet of drill

CULTURE.—Sow in the second or third week in May, if the weather is settled and warm, in drills one inch deep and four feet apart; thin out to 12 inches.

**Lady Finger.** A new variety from the South, very productive, extra-long, slender pods of fine round form. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 60 cts.
**Kleckley's Favorite.** One of the best varieties. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 60 cts.
**Long Green.** Long ribbed pods, very productive. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 50 cts.
**White Velvet.** Very distinct in appearance; pods are perfectly round, smooth and of a white velvety appearance and of superior flavor. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 50 cts.

## PARSLEY

One ounce will sow about 150 feet of drill

CULTURE.—Parsley requires a rich, mellow and deep soil. Soak the seed for a few hours in tepid water, and sow early in the spring in drills one foot apart and half an inch deep. Thin out the young plants to four inches. Hamburg Parsley should be treated the same as carrots.

**Extra Double Curled.** Standard market sort. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.
**Champion Moss Curled.** Very beautiful. Pkt. 10 cts., oz. 25 cts., ¼lb. 60 cts., lb. $2.
**Fern-Leaved.** Finest garnishing variety. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.
**Plain.** The ordinary form. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 80 cts.
**Curled Beauty.** Pkt. 10 cts., oz. 25 cts., ¼lb. 60 cts., lb. $2.
**Hamburg,** or **Rooted.** Edible roots. Pkt. 10 cts., oz. 30 cts., ¼lb. $1, lb. $3.

## PARSNIP

One ounce will sow about 200 feet of drill. 5 to 6 lbs. for an acre

CULTURE.—Sow as early in spring as the ground can be worked, in drills 18 inches apart, covering with fine soil to the depth of half an inch. The soil should be rich and deeply dug. The quality of the roots is much improved after a severe frost; in fact, they may be allowed to remain in the ground throughout the winter, as they are perfectly hardy.

**S. & W. Co.'s Improved Hollow Crown.** A great improvement over the present Hollow Crown variety; smooth, clean and well shaped. Excellent for table or exhibition. Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

**S. & W. Co.'s Maltese.** We are confident in stating that this highly selected strain can not be surpassed, either for size or flavor; the roots, which grow to a very large size, are as tender and sweet-flavored as varieties that do not grow to half the size; a very fine variety for exhibition. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. $2.

S. & W. Co.'s Maltese Parsnip

## PEPPER

One ounce will produce about 200 plants

CULTURE.—Sow in hotbed in March or in the open ground in April; transplant in rows 20 inches apart each way. The seed may be sown in the open ground after all danger of frost is passed.

**S. & W. Co.'s Selected Ruby King.** Fruit bright ruby-red. The flavor is so mild and pleasant that it can be sliced and eaten like cucumbers or tomatoes. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $4.

**Chinese Giant.** Double the size of Ruby King. This is the standard large Sweet Pepper. It is quite early to ripen and very productive for so large a variety. Productiveness may be increased by pinching the first or "king" blossoms which appear. They grow 4 or 5 inches broad at the top, and are of equal length. Quite uniform in size. The flesh is mild and unusually thick and makes an excellent salad sliced and served like tomatoes. Color green, changing to a glossy scarlet when ripe. Pkt. 10 cts., ¼oz. 15 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. $1.15, lb. $4.

S. & W. Co.'s Selected Ruby King Pepper

**Long Red Cayenne.** Fruit about four inches long, bright red color; very productive. Pkt. 5 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.
**Cherry Red.** Small round fruit, rich scarlet color, and extremely piquant. Pkt. 5 cts., oz. 30 cts., ¼lb. 85c., lb. $3.
**Large Bell** or **Bull Nose.** A large early variety of pleasant flavor. Pkt. 5 cts., oz. 20 cts., ½lb. 65 cts., lb. $2.25.
**Magnum Dulce.** Superior to Chinese Giant or any other variety for size and quality. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. $1.25.
**Dwarf Early Red Squash.** Thick meat, small, flat squash-shape. Pkt. 10 cts., oz. 30 cts., lb. $1, ¼lb. $3.50.
**New Neapolitan.** Is fully two weeks earlier than Bull Nose, or Ruby King; of good size, and mild flavor. Pkt, 10 cts., oz. 25 cts., ¼lb. 90 cts
**Golden Dawn.** Bright golden yellow; very productive. Pkt. 5 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.
**Sweet Mountain.** Similar to the Bull Nose, but larger, sweeter and of milder flavor. Pkt. 5 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.
**Red Cluster.** Bears a profusion of red clusters of very thin, pungent Peppers in an upright position. Pkt. 10 cts., oz. 30 cts., ¼lb. 85 cts.

## RHUBARB

One ounce will produce about 1,000 plants

CULTURE.—Sow early in spring, in drills one inch deep and a foot apart; thin out; transplant the following season 4 feet apart each way.

**Linnaeus.** Early, large and tender. Pkt. 5c., oz. 20c., ¼lb. 50c., lb. $1.50.
**Victoria.** Very large, somewhat later than Linnæus. Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.
**Roots.** 10c., ea., $1 per doz.,; extra-strong clumps, 25c. ea. ,$2.50 per doz

OUR PACKETS CONTAIN A FULL HALF-PINT

# PEAS NORTHERN GROWN

Where pints and quarts are ordered BY MAIL, add 5 and 10 cts. each, unless order amounts to $1 or more.

**One quart will plant 100 feet of drill** **Prices on half pints include postage**

CULTURE.—For early crops sow as early in spring as practicable, and again every two or three weeks for a succession throughout the season up to the 1st of August. Plant in single or double rows, 4 feet apart and 2 inches deep. In dry weather soak the Peas over night before planting. In the vicinity of New York the extra-early Peas, if planted from the 15th to the last of August, will produce a medium crop for late picking when they will be found most acceptable.

Varieties marked * are wrinkled Marrows, and should be sown more thickly than the round Peas, and not until the ground has become warm, as they are more liable to rot. All wrinkled sorts are much superior in flavor to the round Peas.

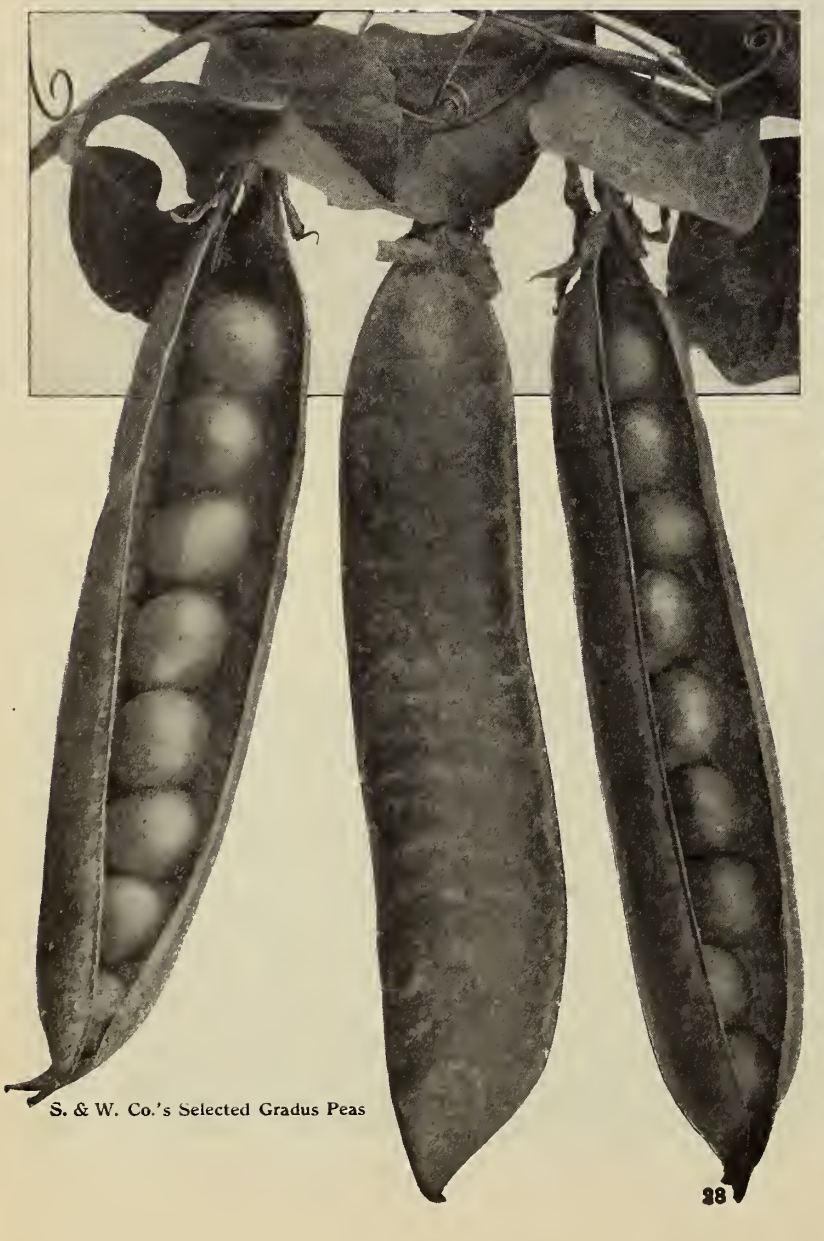
## EARLY PEAS

**Alaska.** A round, slightly pitted, blue-seeded sort, grown largely by canners. An extremely early variety. May be planted as early as First of All, but for the home-garden it is not considered quite so good. Height 18 inches. ½pt. 10 cts., pt. 20 cts., qt. 30c., pk. $2.

**Ameer.** Sometimes called Large Alaska. In habit it is dwarf and stocky, color dark green. Bears about the same time as Thomas Laxton, but, while more prolific, and of fine quality, it cannot be compared as regards flavor. Height 2½ ft. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.25

***American Wonder.** A very early wrinkled Pea that will bear about the same time as Little Marvel, but is not so large or prolific. Height 1 ft. ½pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. $2.

***Early Morn.** This grand introduction maintains its position as one of the best early marrowfat Peas ever raised. Although so early, the seed should not be sown until the soil is in a fit shape to receive it in April, as it is a rapid grower. The pods are very large and well filled, and are often ready to pick several days after Gradus. Height about 3 ft. ½pt. 15 cts., pt. 25c., qt. 45 cts., pk. $3.



S. & W. Co.'s Selected Gradus Peas

**First of All, or Pedigree Extra Early.** A smooth-seeded variety that cannot be too highly recommended. In a planting where ten varieties are wanted to produce a continuous succession of Peas from June 1, this variety heads the list, and will give you Peas four to five days earlier. A splendid cropper; peas very tender, of good flavor, and carried in long, well-filled pods. ½pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. $2.

***Gradus, or Prosperity.** Undoubtedly one of the most valuable sorts introduced up to the present time. The vine has heavy stems, with large, light green leaves and grows about 3 feet high. It produces uniformly large pods, measuring from 4 to 4½ inches in length, nearly round and well filled with very large, handsome peas of the finest flavor and very early, ready for picking after First of All is through, and leaves little to be desired. ½pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. $2.75.

***Little Marvel.** A first-early Pea of the finest quality, better than American Wonder or Nott's Excelsior. The vines of dwarf, even growth average 15 inches high, and are heavily set with fine pods, usually in pairs. The pods average 2½ inches in length, are square at the bottom, and are well filled with quite large, deep green Peas. The Peas are ready for picking fully as early as American Wonder, but the pods are larger and the vines bear a much heavier crop. All who desire a fine crop of an early, choice variety of Peas will be delighted with Little Marvel. Begins to bear just as Gradus is at its best. ½pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. $2.75

***McLean's Little Gem.** An early variety that comes to bearing about the same time as Little Marvel, and while very productive is not so large. Peas are tender and of fine quality. Height 1½ ft. ½pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. $2.

***Nott's Excelsior.** A splendid early sort; large cropper and still preferred by many planters on account of its prolific yielding qualities, but is now really superseded by Little Marvel. Height 14 inches. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.25.

**Saxonia.** In this new extra-early, round Pea, the objections to round Peas, on account of their limited yield are removed, as it yields as abundantly as any of the later sorts. It sets an entirely new standard for round Peas. The pods are double the size of First of All, and are borne mostly in pairs. The vines grow about 2 feet high, and are healthy and vigorous, bearing very large crops of fine Peas. See fuller description on page 9. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.25.

***Sutton's Excelsior.** A variety that calls for highest commendation; equal to Gradus in quality and considerably more productive. Ready for picking just after Gradus and Little Marvel. Height 1½ ft. ½pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. $2.75.

OUR PACKETS CONTAIN A FULL HALF-PINT

# PEAS NORTHERN GROWN

Where pints and quarts are ordered BY MAIL, add 5 and 10 cts. each, unless order amounts to $1 or more.

EARLY PEAS, continued

***Thomas Laxton.** A remarkably fine, early, wrinkled Pea, and we think destined to supersede Gradus. In many characteristics it resembles that excellent sort, but the pods differ in shape, and are certainly more numerous. The peas are of extra-fine quality, tender and of a flavor not excelled by any other. It grows about 3 feet in height, but does not need brushing. Ready for picking at the same time as Sutton's Excelsior. It is a remarkably profitable market Pea, as it is always in demand and brings the best prices. ½pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. $2.75.

## MEDIUM AND MAIN-CROP PEAS

***Alderman.** A distinctly different Pea in habit to those described in the Early list. On generous soils it grows to a height of 5 to 6 feet, and should be supported with brush or trellises. The pods contain seven large, elongated, dark green peas of the highest quality, and follow in the wake of Thomas Laxton. The plants bear very profusely, and the Peas bring the highest price in market. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.50.

***Telephone, or Boston Unrivaled.** This variety is much like Alderman, with vines fully as tall, pods slightly smaller, and bears right up to the season of the very late sorts. The yield of pods is not so great nor so well filled as Alderman. The peas are every bit as tender, but darker green in color and sweeter. Height 5 feet. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.50.

***Buttercup.** Just as Alderman and Boston Unrivaled are at their best Buttercup is ready for picking. Is a handsome, light green Pea, with curved pods frequently borne in pairs, which makes picking very easy. On an average the vines bear six or seven pods containing seven or eight fine, large peas. Height 2 ft. ½pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. $2.75.

***British Wonder.** A distinct sort, possessing very thrifty, bluish green vines which are marvels in respect to their productiveness and the Peas are even sweeter than Gradus. Pods not unlike those of Little Marvel. While the pods of British Wonder are decidedly smaller than Alderman or Boston Unrivaled, and frequently not well filled. Where space is a factor, it is a valuable variety because its vines do not exceed 2 feet in height and the quality of the peas is excellent, with a particularly fine flavor. It is one of the most profitable sorts on the market, as it always brings top prices. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.50.

***Champion of England.** Vines grow 4 to 5 feet high. Pea of excellent quality, and preferred by many; the pods are well filled and the peas are of delicious flavor. ½pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. $2.

***Daisy** (Carter's). Very dwarf-growing, extra-early variety; pods large, averaging 5 inches in length, containing 7 to 9 fine, large green peas of delicious flavor. Height 1½ ft. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.25.

***Potlach.** Really an improved Stratagem and, without a doubt, the best dwarf, extremely late Pea. Healthy bluish green vines, bearing loads of deep green pods; frequently an average of eight pods in pairs containing an average of seven fine, large peas of superfine flavor. A continuous bearer from July 1 to 15 in most seasons. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.25.

Alderman Peas

MEDIUM AND MAIN-CROP PEAS, continued

**Quite Content.** One of the largest-podded Peas in existence and in season similar to Alderman. This variety is preferred by many growers to Alderman on account of its large pods. ½pt. 15 cts., pt. 25 cts., qt. 45 cts., pk. $3.

***Senator.** A grand, second-early, productive of large, luscious, very wrinkled Peas. The handsome, large, round pods are curved and always well filled. Vines grow 3 to 4 feet and carry an enormous crop of delicious Peas, which always command top prices in market on account of their appearance and quality. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.50.

**Telephone.** See **Boston Unrivaled.**

## EDIBLE-PODDED SUGAR PEAS

**Luscious Melting Sugar.** Grows to the height of 5 feet; bears a profusion of large, broad pods, which are so brittle that they snap without any string. They should be use in much the same way as a wax bean. The pods when cooked are very sweet and tender. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.50.

**Very Dwarf White Sugar.** Unusually dwarf, very similar in habit to the American Wonder. The pods are beautifully crimped, are of unusual size for such a small-growing sort, and are of exquisite melting quality. ½pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. $2.50.

# POTATOES FOR SEED

Extra-Early Bovee Potatoes

CULTURE.—Grown exclusively from tubers; 10 to 12 bushels to the acre. Plant in early spring, in rows 3 feet apart and plants 15 to 18 inches apart in row. Cultivate constantly and thoroughly, finally ridging the loose soil against the rows. A second or late spring planting is often made. Store in frost-proof cellar in winter. Our Potatoes are all specially raised for seed purposes, are "Northern-Grown" and are exceptionally fine in quality. In comparing our prices on Potatoes, remember we make no charge for barrels or cartage, and deliver f. o. b., New York, at prices quoted.

## EARLY VARIETIES

**Extra-Early Potato, The Bovee.** The earliest of all and a great cropper. The Bovee in all competitive trials has outyielded all the early Potatoes, and is one of the most valuable sorts for the market-gardener for the first call for new Potatoes. Pk. 85 cts., bus. $2.50, bbl. $5.

**Selected Early Rose.** A standard variety, early, productive and of excellent quality. ½pk. 40 cts., pk. 70 cts., bus. $2, bbl. $4.50.

**Beauty of Hebron.** Slightly flesh-colored skin, with pure white flesh; one of the most popular early varieties. ½pk. 40 cts., pk. 70 cts. bus. $2.25, bbl. $4.

## MEDIUM- AND LATE-CROP VARIETIES

**Gold Coin.** A splendid main-crop variety of remarkable productiveness and finest table quality; slightly oblong form; light golden skin; flesh pure white, fine-grained; cooks very dry. Pk. 85 cts., ½bus. $1.50, bus. $2.50, bbl. $6.

**Snow.** (White.) Sometimes called "Poor Man's Friend." On account of the large yields that have been reported of this Potato it is rightly entitled to be called the Poor Man's Friend. It is of handsome shape and most desirable for the best trade. It is a vigorous grower, ripens uniformly, a little earlier than Green Mountain, is a good keeper and fast becoming one of the most popular medium-late varieties. Pk. $1, ½bus. $1.75, bus. $3, bbl. $7.

**Rural New Yorker.** Large and smooth; white skin and flesh. Pk. 70 cts., bus. $2.25, bbl. $4.

**Carman No. 1.** Largest size, greatest yielder. ½pk. 50 cts., pk. 85 cts., bus. $2.50, bbl. $5.

**Norcross.** Has been grown for the past few years and has given excellent satisfaction. The Potato is large, flat, oval, perfect in shape, finest in quality, largest in yield. It is an excellent eating Potato, is very hardy, and has shown exceptional blight-resisting qualities. ½pk. 50 cts., pk. 90 cts., bus. $2.50, bbl. $6.

**Late Puritan.** Very productive. Pk. 70 cts., bus. $2, bbl. $4.

**Carman No. 3.** Is of perfect form even in dry seasons, almost every Potato being of uniform size and shape, averaging nearly a pound each in weight. The skin and flesh are extremely white, no hollow or dark parts, and its cooking qualities are extremely fine. Pk. 70 cts., bus. $2.25, bbl. $4.50.

**Green Mountain.** (Selected Stock.) A late, heavy cropper of excellent quality; skin smooth and white; shape roundish flat; eyes few and shallow; a good keeper. Pk. 85 cts., ½bus. $1.50, bus. $2.50, bbl. $5.

**PRACTICAL POTATO CULTURE.** Mr. E. A. Rogers, of Brunswick, Maine, well known throughout the country as an authority on the subject of Irish Potatoes, has just published a 128-page, illustrated book, entitled **"Practical Potato Culture,"** which deals with the subject in a thoroughly practical way, under the following heads: Potatoes for Seed, Rotation, Preparing the Land, Fertilizing, Cultivation, Insecticides, Harvesting, Storing, etc. 50 cts., postpaid.

# PUMPKINS

**One ounce will plant 50 hills**

CULTURE.—Plant in April or May, among corn, or in the garden, in hills 8 to 10 feet apart, and otherwise treat in the same manner as melons.

**Large Tours, or Mammoth.** Grows to an immense size, often weighing over 100 pounds. Pkt. 10 cts., oz. 30 cts., ¼lb. 50 cts.

**Connecticut Field.** Grown for stock purposes. Oz. 10 cts., ¼lb. 20 cts., lb. 60 cts.

**Winter Luxury.** This we recommend as one of the best pie Pumpkins; an excellent keeper and enormously productive. It is very finely netted and in color it is a golden russet. Pkt. 10 cts., oz. 25 cts., ¼lb. 60 cts.

**Large Cheese.** A most popular variety in the South. Fruit flattened, the diameter being two or three times more than the length; skin mottled light green and yellow, changing to rich cream-color as it matures; flesh tender and of excellent quality. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. $1.

**Jumbo.** This is the variety to be grown where "the biggest Pumpkin" is wanted. We have seen specimens weighing 250 pounds. The color of skin is a deep yellow, the flesh being of a lighter shade. Notwithstanding its enormous size, it is delicious in quality and generally desirable. Pkt. 10 cts., oz. 25 cts., ¼lb. 60 cts.

**Calhoun.** A good-sized, almost round Pumpkin, with creamy brown skin; flesh deep salmon-yellow, wonderfully thick, fine-grained, and of the finest quality for rich-colored pies. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts.

Large Cheese Pumpkin

# RADISH

One ounce will sow about 100 feet of drill

CULTURE.—Sow, for early crops, in March, in hotbed, and in April and May in a warm border, and continue throughout the season, in fortnightly sowings, in drills an inch deep and a foot apart.

**"Cooper's Sparkler."** A quite distinct variety, now offered for the first time. Fulfils every requirement in each respect, the color being a rich carmine-scarlet, with a very pronounced tip of the purest white. The roots, even when fully developed, are solid, crisp and sweet, and remain fit for use as long as the coarser kinds. It is equally well adapted for forcing in frames or growing in the open ground, for, while the leaves are small, as shown in the accompanying photograph, they are sufficiently large for bunching. Pkt. 10 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.

**Sakurajima.** A Radish from Japan, which grows to enormous dimensions. The circumference of some are 43 inches, the length 21 inches. The skin is white and the fruit is always crisp and tender. The taste is more delicate than our American varieties, and we believe that this variety will become popular. Pkt. 25 cts., oz. 50 cts.

## EARLY TURNIP VARIETIES

**Scarlet.** Very early. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 60 cts.

**Scarlet White-tipped.** Fine for early forcing in frames, or outdoors. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

**Early White Turnip.** A small, round sort, inclined to flat. Its beautiful, pure white color makes it very useful for mixing with other sorts. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 70 cts.

**Yellow Summer.** Splendid variety; stands heat and drought well. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts.

**Early Scarlet Globe.** Of distinct shape, brilliant color, short-leaved, crisp and white; an excellent variety for forcing. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.

**Large White Summer.** Large size and fine form; excellent for summer use. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts.

**Large Gray Summer.** Large size, round. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts.

**Triumph Scarlet-striped, Forcing.** A very desirable addition to our forcing sorts. The roots are about the size and shape of Scarlet Turnip White-tipped, but are creamy white, beautifully marked with spots and dashes of carmine. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts.

## OLIVE-SHAPED VARIETIES

**Olive-shaped Scarlet.** Flesh bright and crisp. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

**Olive-shaped White.** Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

**French Breakfast.** A favorite sort; mild and crisp. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75c.

"Cooper's Sparkler" Radish

Early Scarlet Globe and French Breakfast Radishes

**Red Rocket.** Shape is long oval, color bright red, good flavor. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts.

**White Rocket.** Similar to Red Rocket, but is pure waxy white throughout. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts.

**White-tip Rocket.** Brilliant scarlet with white tip; flavor delicious. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts.

## LONG VARIETIES

**Scarlet Short Top.** Very long and crisp. Pkt. 5 cts., oz. 10 cts., ¼lb. 20c., lb. 60c.

**Scarlet Chartier White-tipped.** The color at the top is crimson, running into pink, about the middle, and from thence downward is a pure white. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 65 cts.

**White Strasburg.** Shape tapering; skin and flesh both white; excellent summer variety. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 65 cts.

**Giant White Stuttgart.** Medium early, large and heavy; pure white throughout; very tender and delicious flavor. Very popular sort. Pkt. 5c., oz. 10c., ¼lb. 20c., lb. 60c.

**Long White Vienna,** or **Lady Finger.** Pure white in color; of long, tapering shape; very attractive in appearance. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts.

**White Icicle.** A fine long white and very early sort, ready in twenty to twenty-five days after planting. Its transparent, white skin, makes it a very attractive market and table variety. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. $1.

## WINTER RADISHES

**Rose China.** Bright rose-color; flesh firm and piquant; fine for winter use. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 60 cts.

**Long Black Spanish.** The popular winter sort. Pkt. 5c., oz. 10c., ¼lb. 20c., lb. 60c.

**Round Black Spanish.** Fine for winter use. Pkt. 5c., oz. 10c., ¼lb. 20c., lb. 60c.

**Half-Long Black Spanish.** A fine market-gardeners' strain. Flesh white and crisp; fit to use early in the fall. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

**California Mammoth White Winter.** A white-fleshed Radish of excellent quality. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

# SPINACH

**One ounce will sow about 100 feet of drill**

CULTURE.—Sow in March or April in drills an inch deep and 14 inches apart; again in August or September. Spinach delights in very rich soil—in fact, it is of no use sowing in a poor one.

New York Market Spinach (Long Island Grown)

**S. & W. Co.'s New York Market.** (Long Island Grown.) This Spinach grows rapidly and produces unusually large, thick, crumpled leaves of beautiful green. Properly cultivated and manured, the plants very often measure 2 feet across, and stand the winter better than any other sort of Spinach. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

**S. & W. Co.'s Savoy-leaved.** A valuable variety with wrinkled leaves, resembling the Savoy Cabbage; hardy and prolific. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 35 cts.

**S. & W. Co.'s Large Thick-leaved.** Fine market sort. It produces a large, thick leaf and stands for a long time before running to seed. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 35 cts.

**S. & W. Co.'s Long Season.** A distinct variety, standing from two to three weeks longer than any of the other sorts in this climate without going to seed. Pkt. 10c., oz. 15c., ¼lb. 35c., lb. $1.

**S. & W. Co.'s Monstrous Viroflay.** A fine selection of the old Lettuce-leaved Spinach. Excellent for summer use. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 35 cts.

**New Zealand.** Produces leaves in great abundance throughout the summer; it should be transplanted 2 by 3 feet. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. $1.

Mammoth Sandwich Island Salsify

# SALSIFY

**Vegetable Oyster**

**One ounce will sow about 50 feet of drill.**

CULTURE.—Sow the seed early in spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 6 inches. The roots will be ready in October, when a supply should be taken up and stored like carrots. Those remaining will suffer no injury by being left in the ground until spring.

**Mammoth Sandwich Island.** Tender and delicious. Superior to all other sorts. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. $2.

# SCORZONERA

**One ounce will sow about 50 feet of drill**

CULTURE.—Cultivate the same as salsify. The roots should not be scraped, but simply washed, boiled tender, then peeled and served like asparagus. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts.

# SORREL

**One ounce will sow about 100 feet of drill**

CULTURE.—Sow early in the spring in drills 6 to 8 inches apart.

**Garden.** Used for soups and salads on account of its pleasant acid flavor. Pkt. 10 cts., oz. 25 cts., ¼lb. 60 cts., lb. $2.25.

# SEA-KALE

**One ounce will produce about 300 plants**

Sow an inch deep in drills 2 feet apart, thin out to 6 inches, and the next spring plant in hills 3 feet apart. Pkt. 5 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

# SPROUTS

**One ounce will plant about 150 feet of drill**

CULTURE.—Sow in drills one inch deep, in rows about 2 feet apart, and treat the same as kale.

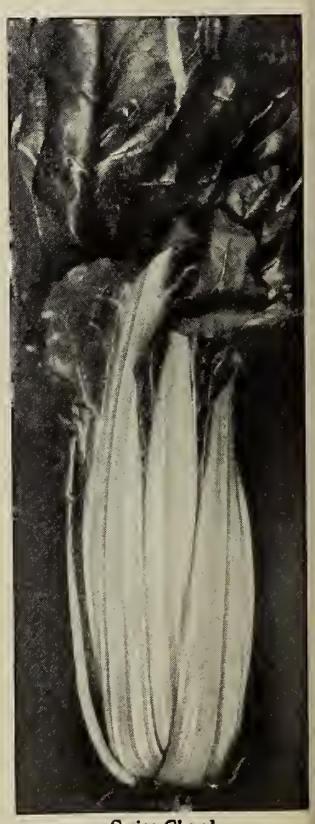
**Spring Sprouts,** or **English Rape.** Pkt. 5 cts., oz. 10 cts.

**Winter,** or **Siberian Kale.** Pkt. 5 cts., oz. 10c., ¼lb. 20c., lb. 60c.

# SWISS CHARD (Spinach Beet)

**One ounce will sow about 100 feet of drill**

If your garden space is limited, Swiss Chard must have a place, for, in ground occupied, Swiss Chard produces more food for the table than almost any other vegetable. The leaves are used for greens the same as spinach or beet-tops; they are equal in quality and easier to prepare than spinach, and far superior to beets. Sow as early in spring as the ground can be worked, in rows 12 inches apart, and thin out to 5 inches apart in the rows. As it grows, thin out for use. It can be used all summer when spinach is not available. Later, the leaves grow very large, with broad, flat, pure white stems, and midribs which may be cooked like asparagus.



Swiss Chard

**Giant Lucullus.** Plants of this variety grow to a height of 2 to 2½ feet. The stalks are quite thick, 1½ inches broad, heavily ribbed and from 10 to 12 inches long below the leaf. These stalks are splendid when cooked and served in the same manner as asparagus. The extra-large leaves are sharply pointed at the top, while in texture they are heavily crumpled. The leafy portion of the foliage is cooked and served in the same manner as spinach. The leaves and stalks, served as separate vegetables, afford two distinct dishes from the same plant at one time. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. $1.75.

**Green Lyon.** Not so tall as the Lucullus, or Wrinkled. Leaves and midrib very broad. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.

# SQUASH

**One ounce of Early Squash will plant about 25 hills**
**One ounce of Marrow Squash will plant about 50 hills**

CULTURE.—The Squash succeeds best in good rich soil. It is not advisable to plant before May 15. Sow in hills in the same manner as cucumbers and melons.

## SUMMER VARIETIES

**Long Island White Bush.** A selection of the Old White Bush Scalloped, and a vast improvement, having less prominent ridges and being much deeper, so that a single Squash actually contains nearly twice as much weight for the same cubic measurement as the old sort. In addition to this, it is of finer quality and very prolific. We can strongly recommend this variety. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts.

**Giant Bush Summer Crookneck.** The Crookneck class of Squash surpasses in quality any of the summer varieties, and in the Giant Bush we have the delicious buttery flavor of the original sort, but of just double the size. Pkt. 10 cts., oz. 25 cts., ¼lb. 60 cts.

**Delicata.** Early and very prolific; of oblong shape. Ground-color orange-yellow, splashed and striped with very dark green. Although of small size, the Squashes are solid and heavy, while the quality is rich and dry. An excellent "all seasons" Squash. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts.

**Golden Custard.** Mammoth strain of the Early Yellow Scalloped Bush. Golden yellow flesh, quality excellent. Pkt. 5 cts., oz. 15 cts., ¼lb. 30 cts.

## VEGETABLE MARROW

A very widely known vegetable in the English market, but little known in this country. The fruits are generally eaten when less than half-grown, as the flesh is then very tender and marrowy. It should always be used in a young state. Pkt. 5 cts., oz. 15 cts., ¼lb. 30 cts.

Long Island White Bush Squash

## FALL, OR WINTER VARIETIES

**Boston Marrow.** A very popular Squash for fall or winter use. Bright orange-color, flesh yellow; oval in form. A splendid keeper and excellent for pies. **Pkt. 5cts., oz. 15 cts., ¼lb. 30 cts.**

**Chicago, or Warted Hubbard.** This is a selection of the largest and best rough-skinned specimens of the Green Hubbard. The strain is an ideal winter Squash for the home market. The vines are of strong, robust growth; fruits very large, heavily warted, splendid shape and dark green; flesh rich and dry. Pkt. 5 cts., oz. 15 cts., ¼lb. 30 cts., lb. $1.10.

**Golden Hubbard.** One of the best of the Hubbards for the private garden. The fruits are of the same shape as the green Hubbard, except that they average one-half to one-third less in size. Flesh deep golden yellow, much richer in color than Hubbard. Cooks dry and of rich flavor. Pkt. 5 cts., oz. 15 cts., ¼lb. 30 cts., lb. $1.10.

**Hubbard.** Finest of all the late-growing varieties. Bluish green color, occasionally marked with brownish orange. Will keep from September to May. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts.

**Perfect Gem.** Round, white, very productive, and of fine quality. Pkt. 5 cts., oz. 15 cts., ¼lb. 30 cts.

**Our List of Dahlias and Gladioli contains many of the best varieties in commerce.**

# TOMATO

One ounce will produce about 1,000 plants

CULTURE.—The seed should be sown in a hotbed about the first week in March, in drills 5 inches apart and half an inch deep. When the plants are about 2 inches high, they should be transplanted into another hotbed and planted 4 inches apart, or planted in 4-inch pots, allowing a single plant to a pot. About the 15th of May the plants may be set out in the open ground 3 feet apart. Water freely at the time of transplanting. Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower-pot, and placing it in a sunny window of the room or kitchen. The fruit is greatly improved in quality if the vines are tied to a trellis or to stakes.

Crimson Cushion Tomatoes

## FORCING

**S. & W. Co.'s Best of All.** A variety of matchless form and color. Fruits beautiful, smooth, round and wonderfully prolific. Color of rich scarlet-red; setting very free in bunches. Equally good for outdoor culture as for forcing. Pkt. 15 cts., ¼oz. 75 cts., oz. $2.50.

**Comet.** This is a splendid variety of Tomato, and grown very largely in this country by both private and market-gardeners. It is very short-jointed, fruiting close up to the stem. The Tomatoes are of medium size; deep scarlet. Pkt. 10 cts., ¼oz. 50 cts., oz. $1.50.

**Stirling Castle.** A very superior variety for either forcing or out-door culture. Very heavy cropper of medium size, smooth and round. Color a clear red. Remarkable for its freedom of set and delicious flavor. (Seed English-grown.) Pkt. 15 cts., ¼oz. 75 cts., oz. $2.25.

# GENERAL LIST OF OUTDOOR TOMATOES

## EARLY SORTS

**Earliana.** **The Earliest Red Tomato.** The plants are of compact growth, with short, close-jointed branches, setting the fruit very freely in the center. The Tomato is of uniform size, averaging 3 inches in diameter, and from 2 to 2½ inches in depth; solid, with few seeds, making a splendid variety for shipping. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. $1.25.

**Chalk's Early Jewel.** About a week later than Earliana. It is of uniformly large size; of brightest red, deep fruited and solid. Bears splendid, large-sized Tomatoes throughout the season, and for quantity and quality of fruit it is easily without a rival among the best extra-earlies. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. $1.10, lb. $4.

**June Pink.** The earliest pink Tomato, similar to Earliana except that the color is pink instead of red. The fruits are of fair size and ripen evenly, practically permitting the entire crop to be harvested at one time. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. $1.10, lb. $4.

## SECOND EARLY, or MAIN-CROP SORTS

**Acme.** A purple-fruited Tomato, largely grown by the market-gardeners. The vines are large, bearing fruits in clusters of five or six right up to frost. Pkt. 5 cts., oz. 20 cts., ¼lb. 70 cts., lb. $2.50.

**Coreless.** Large size, globe-shaped, bright red; full stem end, heavy cropper. The two distinctive features which stand out most prominently are great depth from stem to blossom, and the depression at the stem has been almost entirely eliminated. Pkt. 10 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. $1.75.

**Crimson Cushion.** The Crimson Cushion is more symmetrical in shape than the Ponderosa, and is much thicker through from stem to blossom end; in fact, so marked is this characteristic that it is frequently almost round. The color is brilliant scarlet-crimson, untinged with purple, and ripens up almost to the stem. The flesh is firm and "meaty," and of superb quality. Pkt. 10 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. $1.50, lb. $4.

**Dwarf Champion.** Distinct in foliage and habit of growth being compact and upright; fruits medium size and resembles the Acme in appearance, the color being a purplish pink; very smooth and symmetrical; fine quality and solid. Fruits midseason to frost. Pkt. 5c., oz. 25c., ¼lb. 75c., lb. $2.50.

**Dwarf Stone.** The largest-fruited of all the dwarf Tomatoes. The fruits are produced in clusters of three to five, and, as the growth is close-jointed, each plant produces a large number. The Tomatoes average 4 inches in diameter and 2½ inches in depth. Its dwarf, compact habit suggests its use to all amateurs. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. $1.10, lb. $4.

**Golden Queen.** A large Tomato, of splendid shape; deep, rich yellow. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**New Globe.** It is of beautiful globe-shape, with quite a percentage of elongated (stem to blossom) fruits, which permits of a greater number of slices being taken than with flat-fruited sorts. Among the very first to ripen, although of large size; very smooth, firm-fleshed, few seeds, ripens evenly; color a beautiful glossy rose, tinged purple. Flavor very delicate and agreeable; splendid slicing variety. The fruit is borne on short-jointed branching plants in great abundance—literally loaded with fruit. A good general cropper, and one of the very best for greenhouse growing, or first-early crop. Pkt. 10 cts., ½oz. 30 cts., oz. 50 cts., lb. $5.

SECOND-EARLY OR MAIN-CROP TOMATOES, continued

**Matchless.** The color is rich cardinal-red. The skin is so tough that it is a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or for table. The plant is a strong grower, and is very productive, bearing with undiminished vigor until frost. The fruit is free from core, and the seed-spaces are comparatively small. In flavor among the best. Pkt. 5 cts., ½oz. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

**Ponderosa.** Few Tomatoes equal this one in size and, while slightly ribbed, it is very solid and luscious for the family garden. The fruit is deep purple, oblong in form, generally ridged or ribbed with small seed-cells and frequently weighs one pound. Pkt. 10 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. $1.50, lb. $5.

**Selected Stone.** By far one of the best of the main-crop red Tomatoes. It is smooth, with very little core, and is not equaled by any other main-crop sort in its large yield of uniform-sized Tomatoes. Pkt. 10 cts., ½oz. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.50.

## SMALL-FRUITING TOMATOES

The fruits of these are largely used for making fancy pickles, preserves, etc. The plants are extremely productive.

**Yellow Plum.** Fruits are about 2 inches in length and 1 inch in diameter; are of a bright lemon-yellow; solid, fleshy and of excellent flavor. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts.,

**Yellow Pear.** Similar to Yellow Plum, except in shape, which is a distinct pear-shape. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts.

**Peach.** The fruits are about 1½ inches in diameter, similar to a peach, of a pinkish color. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts.

**Yellow Cherry.** Small, yellow fruits about ½ inch in diameter, borne in clusters. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts.

**Red Cherry.** Similar to the above except that it is bright red. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts.

**Red Pear-shaped.** A leading favorite for preserves; of distinct pear-shape; fine flavor. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts.

**Strawberry, or Husk Tomato.** The plants are of dwarf, spready growth and very productive. The fruit is yellow, about size of a good-sized strawberry and is inclosed in a husk. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts.

Ponderosa Tomato

## TOMATO PLANTS. Pot-grown

| | Doz. | 100 |
|---|---|---|
| **Crimson Cushion** | $0 75 | $5 00 |
| **Ponderosa** | 75 | 5 00 |
| **June Pink** | 75 | 5 00 |
| **Earliest of All** | 75 | 5 00 |
| **Early Michigan** | 60 | 4 00 |
| **Acme** | 60 | 4 00 |
| **Stone** | 60 | 4 00 |
| **Globe** | 75 | 5 00 |

We have Tomato plants, grown in flats, at 25c. per doz., $2 per 100

Purple-Top White Globe Turnip

# TURNIP

One ounce will sow about 150 feet of drill

CULTURE.—For early Turnips, sow as soon as the ground opens in spring. Rutabagas should be sown from any time in July to first of August; but the other kinds, for winter use, may be sown from the middle of July to the end of August. Turnips are generally sown broadcast, but much larger crops are obtained (particularly of the Rutabagas) by cultivating in drills 18 inches apart, and thinning to 6 inches in the drill. Sow in drills, one pound to the acre; broadcast, two to three pounds to the acre.

**Early White Milan.** As early as the Early Purple-top Milan and possesses all of its good qualities. The entire bulb, inside and out, is clear ivory-white in color; the outer surface is perfectly smooth. It grows so quickly that even the outer surface of the bulb is quite tender. Its table qualities are unequaled, being of the most delicate flavor and tempting appearance. It will undoubtedly find a welcome in our markets, as, in addition to the heavy crop assured by its adaptability for close planting, it will be found fit for use at least a week earlier than any other white variety in cultivation. Pkt. 5 cts., oz. 15 cts., ¼lb. 40c.

**White Egg.** Shape nearly oval; flesh firm; smooth white skin; mild and very sweet. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.25.

**Early Snowball.** Small, solid, crisp and sweet; one of the best for table use. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. $1.

**Purple-Top Munich.** One of the earliest varieties. Pkt. 5 cts., oz 10 cts., ¼lb. 20 cts., lb. 50 cts.

**Red-Top Strap-leaf.** A standard sort, extensively grown for market and private use. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.25.

**White Strap-leaf.** Early variety. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 50 cts.

**Purple-Top White Globe.** An early variety, globe-shaped, heavy cropper, in other respects similar to Red-Top Strap-leaf. A handsome-looking bulb, and is rapidly taking the lead of all other varieties of early Turnip for market-garden purposes. Pkt. 10 cts., oz. 15 cts., ¼lb. 35 cts., lb. $1.

**Golden Ball, or Orange Jelly.** This is the most distinct yellow Turnip we know. The flesh is of a very fine texture, making it one of the best table varieties. Its beautiful color and fine flesh have earned for it the synonym of "Orange Jelly," which well describes its appearance when ready for the table. The bulb is of medium size, with small tap-root, and is early in maturing. Pkt. 5 cts., oz. 15 cts., ¼lb. 30 cts., lb. $1.

### TURNIPS, continued

**Long White,** or **Cowhorn.** A quick-growing, long-shaped variety, flesh fine-grained and sweet, excellent for table use. Pkt. 5 cts., oz. 15 cts., ¼ lb. 35 cts., lb. $1.

**White French,** or **Sweet German.** A delicate-flavored variety; an excellent keeper and fine for table use. Pkt. 5 cts., oz. 15 cts., ¼ lb. 35 cts., lb. $1.

**Yellow Stone.** One of the best yellow-fleshed sorts for table use. Pkt. 5 cts., oz. 15 cts., ¼ lb. 35 cts., lb. $1.

**Early Purple-Top Milan.** Earliest of all purple-topped Turnips. Pkt. 5 cts., oz. 15 cts., ¼ lb. 35 cts., lb. $1.

**Yellow Aberdeen.** A very hardy and productive variety of fine form and excellent quality. Pkt. 5 cts., oz. 15c., ¼ lb. 35c., lb. $1.

# Aromatic, Medicinal and Pot Herbs

| | Pkt. | Oz. |
|---|---|---|
| **Anise** (*Pimpinelta anisum*). Seeds aromatic and carminative | $0 10 | $0 20 |
| **Balm** (*Melissa officinatis*). For culinary purposes | 10 | 30 |
| **Basil** (*Ocymum basiticum*). Sweet. Culinary herb used for flavoring soups, etc. | 10 | 20 |
| **Bene** (*Sesamum orientale*). The leaves used for dysentery. | 10 | 20 |
| **Borage** (*Borago officinalis*). Leaves used as a salad | 10 | 20 |
| **Caraway** (*Carum Carui*). Used in flavoring liquors and bread | 10 | 20 |
| **Catnip** (*Nepeta cataria*). Has medicinal qualities | 15 | 70 |
| **Coriander** (*Coriandrum sativum*). Seeds aromatic | 10 | 20 |
| **Dill** (*Auethum graveolens*). Seeds used for flavoring vinegar. | 10 | 20 |
| **Fennel** (*Anethum Fœniculum*). Florence. In flavor resembling celery | 10 | 25 |
| **Horehound** (*Marrubium vulgare*). Has medicinal qualities | 10 | 40 |
| **Hyssop** (*Hyssopus officinalis*). Has medicinal qualities | 10 | 40 |
| **Lavender** (*Lavandula vera*). True. For oil and distilled water | 10 | 50 |
| **Marjoram** (*Origanum Majorana*). Sweet. Used in seasoning | 10 | 30 |
| **Mint** (*Mentha piperita*). Peppermint | 25 | |
| **Rosemary** (*Rosmarinus officinalis*). Yields an aromatic oil and water | 10 | 50 |
| **Rue** (*Ruta graveo'ens*). Said to have medicinal qualities | 10 | 30 |
| **Saffron** (*Carthamus tinctorius*). Used in medicine and also in dyeing | 10 | 20 |
| **Sage** (*Salvia officinalis*). Common. A culinary herb; also used in medicine | 10 | 20 |
| **Savory** (*Satureja Hortensis*). Summer. Used as a culinary herb. | 10 | 20 |
| **Savory** (*Satureja montana*). Winter. Used as a culinary herb | 10 | 40 |
| **Tarragon** (*Artemisia Dracunculus*). Does not produce seed. See Esculent Plants. | | |
| **Thyme** (*Thymus vulgaris*). Broad-leaved English. Used as a seasoning | 10 | 50 |
| **Thyme** (*Thymus vulgaris*). French | 10 | 40 |
| **Woodruff** (*Asperula odorata*) | 10 | 1 00 |
| **Wormwood** (*Artemisia Absinthium*). Has medicinal qualities | 10 | 30 |

# Root Crops for Feeding Stock

## CARROT

Sow two to three pounds to the acre. From middle of May to July 1 for main crop; one foot apart between rows, thin out to 7 inches in the rows.

**S. & W. CO.'S STRAIN DANVERS HALF-LONG.** Deep orange color, of medium length, tapering uniformly to a blunt point. Flesh smooth, and although of medium length, this strain will give the largest yield per acre. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.

**LONG ORANGE IMPROVED.** An excellent long Carrot, of deep orange color; doing well in a deep soil. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.

## MANGEL-WURZEL and SUGAR BEETS

Sow six to eight pounds to the acre during May and June; 2 feet apart between rows, thin out to 8 inches in rows.

**CHAMPION YELLOW GLOBE.** Globe-shaped roots of large size, adapted for growing in shallow soils. Oz. 10c., ¼lb. 15c., lb.50c

**Red Globe.** Similar to Yellow Globe, except color of skin being red. Oz. 10 cts., ¼lb. 15 cts., lb. 50 cts.

**MAMMOTH LONG RED.** The largest and heaviest cropper of all the Mangels. Dark red skin, with whitish flesh. Grows one-half or more above the surface. Oz. 10c., ¼lb. 15c., lb. 40c.

## SUGAR VARIETIES

**KLEIN WANZLEBEN.** Extensively grown for feeding and sugar. Oz. 10 cts., ¼lb. 15 cts., lb. 50 cts.

**IMPROVED WHITE SUGAR.** Oz. 10 cts., ¼lb. 15 cts., lb. 50 cts.

## RUTABAGA (Russian or Swedish Turnip)

Sow two pounds to the acre in June and July in drills, 2 feet apart.

**S. & W. Co.'s Long Island Improved.** This special strain of Rutabaga is grown on Long Island by a very careful grower. It is of a remarkably uniform shape and fine quality, and is also a splendid keeper. It grows to a large size, the skin is smooth, and flesh is beautiful yellow and fine-grained. Pkt. 5c., oz. 15c., ¼lb. 30c., lb. $1.

**IMPROVED AMERICAN PURPLE-TOP.** A yellow-fleshed Purple-top; great cropper; excellent for table or stock. Pkt. 5 cts., oz. 15 cts., ¼lb. 25 cts., lb. 80 cts.

**SKIRVING'S PURPLE-TOP.** A very heavy cropper; one of the best for field culture. Pkt. 5 cts., oz. 15 cts., ¼lb. 25c., lb. 80c.

# Esculent Plants, Roots and Herbs

| | Each | Doz. | 100 |
|---|---|---|---|
| **Chive Plants** | $0 25 | $2 50 | $20 00 |
| **Cinnamon Vine Roots** | 10 | 1 00 | 7 00 |
| **Hop Vine Roots** | 10 | 1 00 | |
| **Jerusalem Artichoke Roots**..qt. 25c., pk. $1. | | | |
| **Horse-Radish Roots** (strong roots) | | 15 | 75 |
| **Peppermint** | 15 | 1 50 | 12 00 |
| **Rosemary** | 15 | 1 50 | 12 00 |
| **Rhubarb Roots** (Giant Crimson Winter) | 25 | 2 50 | 15 00 |
| **Sage** | 15 | 1 50 | 12 00 |
| **Tansy** | 15 | 1 50 | 12 00 |
| **Tarragon.** Strong 3-inch pot plants | 35 | 3 50 | 25 00 |

## FORCING ROOTS

**Asparagus, Conover's Colossal,** or **Palmetto.** Forcing crowns. $7 per 100, $60 per 1,000.

**Sea Kale** (*Crambe maritima*). Sea Kale is almost unknown in America, but considered quite a delicacy in Europe. It is one of the most succulent and edible vegetables known, and can be forced like rhubarb, or grown in the open ground and protected so that it will bleach. In form and flavor it is not unlike celery, though it is not eaten raw, but boiled and served with drawn butter. We are importing some specially fine stock this winter.

**Imported Extra-selected Forcing Crowns.** Doz. $2, 100 $15, per 1,000 $140.

# GENERAL LIST OF FLOWER SEED

In presenting this list of **Flower Seeds** for your attention, every care has been taken to secure **seeds** from sources of supply known to us, and from our experiences and from our tests at our **trial grounds,** to be of the highest possible merit. Our Flower Seeds are selected with an idea of superiority of strain and we handle only the highest possible types in each respective class.

**We mail all Flower Seeds FREE OF COST to any Post Office in the United States.**

**ANNUALS** grow from seed, flower and mature their seed the same season.

**HARDY ANNUALS** can be sown outdoors in open ground.

**HALF-HARDY ANNUALS** should be started early in house or hotbed and transplanted to the open ground as soon as danger of frost is past.

**BIENNIALS** are sown usually from early July to late August, and come to bloom next season.

**HARDY BIENNIALS** may be left in the ground over winter.

**HALF-HARDY BIENNIAL.** Protection of coldframe is necessary over winter.

**PERENNIALS** grow from seed, and flower annually for a number of years. They bloom the season after sowing, but can be had in flower the first season if planted early in a moderate heat.

**HARDY PERENNIALS** can be left in the open ground without any protection, but this is not recommended. Protection is beneficial.

**HALF-HARDY PERENNIALS** require protection of a coldframe or greenhouse during winter.

The following abbreviations will be used to designate the classes under which various Flower Seeds offered come.

**H.C.** Hardy Climbers. **G.C.** Greenhouse Climbing Plants. **G.S.** Greenhouse Shrubs.
**G.B.** Greenhouse Bulbous Plants. **G.P.** Greenhouse Plants.

**ABUTILON, Finest Mixed** (Chinese Bellflower, Flowering Maple). G. S. Attractive coolhouse shrub and window plant. Perpetual-blooming plants, bearing lovely bell-shaped flowers; valuable both for winter decoration and summer bedding. Height 4 feet. Pkt. 25 cts., 1-32 oz. $1.

**ABRONIA.** Verbena-like plants, very fragrant, especially toward evening. Charming trailers for vases, rockwork, etc. Half-hardy annuals.
**Umbellatum.** Rosy pink. Height ¾ft. Pkt. 5 cts.
**Arenaria.** Lemon-yellow. Height ¾ft. Pkt. 5 cts.

**ABRUS Precatorius** (Prayer Bean; Crab's Eye). Chiefly remarkable for its small, egg-shaped seeds, which are of a brilliant scarlet, with a black mark. These seeds are used for necklaces and other ornamental purposes. Pkt. 10 cts.

**ACACIA.** Decorative greenhouse shrubs with elegant foliage; flowers yellow, white or red. 3 to 6 feet. Perennial.
**Mixed Varieties.** Pkt. 5 cts.

## ACHILLEA

**Ptarmica, The Pearl** (Sneezewort). Hardy perennial. One of the best, bears a profusion of small, double, white flowers during the entire season. Fine for cutting. Height 2½ feet. Pkt. 25 cts., ⅛oz. $2.

## ACONITUM

**(Monkshood, or Wolfsbane)**

**Napellus.** A hardy perennial, growing in any good garden soil, producing long spikes of curiously shaped blue-and-white flowers. Well adapted for planting among shrubbery or in shady corners of the garden. 3 to 5 feet. Pkt. 10 cts., ¼oz. 35 cts.

**Finest Mixed.** All colors. Pkt. 10 cts., ¼oz. 25 cts.

**ACROCLINIUM.** See Everlasting Flowers, page 71.

## ADONIS

**Æstivalis** (Pheasant's Eye). Hardy annual. Dark green foliage; scarlet flowers. 1 foot. June to August. Pkt. 5 cts., oz. 25 cts.

**Autumnalis** (Flos Adonis). Small, crimson flowers, with dark center; globose, 1 foot. May to July. Pkt. 5 cts., oz. 25 cts.

**Vernalis** (Spring Adonis). Hardy perennial, with large yellow flowers in the early spring. 1 foot. May. Pkt. 10 cts., oz. 75 cts.

Ageratum, Swanley Blue

## AGERATUM (Floss Flower)

One of the very best bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, their flowers are not liable to be spoiled by rain, nor do the colors fade out. The various blue varieties are, without doubt, the most satisfactory bedding plants of this color for our trying climate. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May. A sowing in September will give plants to bloom all winter. Half-hardy annual.

**Album.** Pure white sort, growing about 10 inches high. Pkt. 5 cts., oz. 50 cts.

**Little Blue Star.** A very dwarf variety used largely for edging, growing about 4 to 5 inches high; bright blue flowers. Pkt. 5 cts., 2 pkts. 25 cts.

**Little Dorrit, Blue.** This variety grows about 6 inches high; flowers bright blue. Pkt. 10 cts., oz. 75 cts.

**Little Dorrit, White.** Same in habit as preceding only white. Pkt. 10 cts., oz. 75 cts.

**Mexicanum Capella.** Distinct variety growing about 9 inches high; flowers rosy chamois. Pkt. 15 cts., 2 pkts. 25 cts.

**Princess Pauline.** A very beautiful variety of compact, even growth, rarely exceeding 8 inches in height; the flowers are sky-blue with a white center. Pkt. 10 cts., ¼oz. 35 cts.

**Swanley Blue.** Bright blue; height 12 inches. Pkt. 10 cts., oz. 75 cts.

## AGROSTEMMA

**Cœli-rosa** (Rose of Heaven). Superb free-flowering hardy annual; rose-colored flowers; fine for cutting. Height 1½ ft. July to Sept. Pkt. 5 cts., oz. 25 cts.

**Coronaria** (Rose Campion; Mullein Pink). Hardy perennial; flowers dark blood-red and very large; foliage silvery. Height 2 feet. June to September. Pkt. 5 cts., oz. 50 cts.

**Coronaria alba.** White. Pkt. 5 cts., oz. 50 cts.

**Coronaria, Mixed.** Pkt. 5 cts., oz. 50 cts.

**ALOYSIA citriodora** (Lemon Verbena). Greenhouse evergreen; valuable for the fragrance of its foliage; excellent for planting outdoors. 2 feet. Pkt. 10 cts., ⅛oz. 50 cts.

**ALSTROEMERIA, Finest Mixed.** Hardy perennial. Beautiful lily-like flowers, borne in clusters ranging from light yellow to orange. Must be grown in moist, shady spots. Height 3 feet. June to August. Pkt. 25 cts., ¼oz. 75 cts.

# ALYSSUM

This most popular hardy annual needs little introduction. Used extensively as a border for the flower-garden, but equally valuable as a cut-flower, owing to its delightful fragrance.

**Little Gem** (*A. maritimum*). Plants grow very dwarf and spreading; they grow only 3 to 4 inches high, and each plant completely covers a circular space of 12 to 20 inches. Pkt. 5 cts., oz. 50 cts.
**Sweet Alyssum** (*A. Benthami*). Well-known fragrant white. Pkt. 5 cts., oz. 50 cts.
**White Carpet** (*A. compactum procumbens*). Pure white; grows only 2 to 3 inches high and flowers profusely. Pkt. 10 cts., oz. $1.
**Saxatile compactum.** Hardy Perennial. Excellent rock or border plant, bearing bright yellow flowers from April to June. Height 9 inches. Pkt. 10 cts., oz. 60 cts.

Border of Alyssum, Little Gem

# AMARANTUS

Brilliant-foliaged annuals, growing from 3 to 5 feet high, some of the varieties bearing curious racemes of flowers. All are useful in borders of tall plants, or for the centers of large beds. They thrive best in a hot, sunny location and not too rich soil; must be given sufficient room to develop their full beauty.

**Caudatus** (Love-Lies-Bleeding). Blood-red; drooping. Pkt. 5 cts.
**Cruentus** (Prince's Feather). Dark red, feathery flowers. Pkt. 5 cts.
**Tricolor** (Joseph's Coat). Leaves red, yellow and green. Pkt. 5c., ¼oz. 15 cts.

**AMPELOPSIS Veitchii** (Boston or Japan Ivy). Valuable hardy and perennial climber, clinging to walls of wood, brick or stone; foliage dense, of glossy green, changing to red and yellow in the autumn. Pkt. 10 cts., oz. 30 cts.

# ANCHUSA

**Barrelieri** (Alkanet). Hardy perennial. Flowers deep blue, with a white tube and pink throat, borne on spikes 2 feet high; good for cutting. June to September. Pkt. 10 cts., ¼oz. 30 cts.
**Capensis.** Biennial. Flowers azure-blue. 1½ ft. July and August. Pkt. 5 cts., oz. 30 cts.
**Italica.** Hardy perennial. Deep blue. 3 feet. June to September. Pkt. 5 cts., oz 50 cts.
**Sempervirens.** Hardy perennial. Blue. 1½ feet. Pkt. 5 cts., oz. 50c.

Long-spurred Aquilegias

## Anchusa Italica, Dropmore Variety NEW

The bright blue forget-me-not-like flowers are borne on graceful stems during the entire season and way late into the fall. It is a great improvement over the existing varieties. Hardy perennial. 4 to 5 feet. Pkt. 15 cts., 2 pkts. 25 cts., ¼oz. 50 cts.

**ANEMONE, Single Giant de Caen** (Windflower). The giant French Anemone. Half-hardy perennial. Excellent for cutting. 9 inches. Pkt. 5 cts., ¼oz. 50 cts.
**St. Brigid** (Irish Anemone). A great variety of colors. Pkt. 15 cts., ⅛oz. $1.

**ANTHEMIS Kelwayi** (Marguerite). Hardy perennial. Large, daisy-like yellow flowers; good for cutting. Height 2 feet. July to September. Pkt. 10 cts., oz. 60 cts.
**Nobilis.** White. 2 feet. Pkt. 10 cts., oz. 60 cts.

# AQUILEGIA (Columbine)

The Aquilegias are fine, free-flowering, hardy border plants. Seed may be planted in the open ground early in the spring, and will, in the case of single varieties, bloom the same season. Best results are obtained by planting in August, when they will come up early in the spring, making vigorous plants, and will bloom during late spring and early summer.

**Giant Long-spurred, Mixed.** A very excellent mixture of Columbines, comprising new and pleasing shades and combinations, effective and striking in the individual flowers, in many shades of lavender, blue, mauve, white, yellow, orange, scarlet and bright rose-pink. Pkt. 25 cts., 5 pkts. $1.

**Californica hybrida.** Beautiful flowers, principally yellow and orange shades. Pkt. 15 cts., ¼oz. $1.25.
**Chrysantha.** Canary-yellow. About 3 feet. Pkt. 10 cts., ¼oz. $1.
**Cærulea.** Violet-blue and white. About 2 feet. Pkt. 15 cts., ¼oz. $1.25.
**Skinneri.** True scarlet tipped with green. 3 feet. Pkt. 25 cts.
**Rose Queen.** Rose shades with white centers and yellow anther; beautiful. 3 feet. Pkt. 25 cts.
**Stewartii.** Beautiful, large; pale blue. 2 feet. Pkt. 50 cts.
**Double Mixed.** Very fine. 3 feet. Pkt. 10 cts.
**Single Mixed.** Fine varieties. 3 feet. Pkt. 10 cts.

# ANTIRRHINUM (Snapdragon)

Antirrhinums, or Snapdragons, are among the most showy of our half-hardy perennials. When sown under glass in February, they can be brought to bloom during July. As a cut-flower, the tall varieties are exceedingly attractive, while the dwarf varieties look very pleasing when used for borders or edging of beds. Grown under glass, also for winter flowering.

## New Antirrhinum, Silver Pink

This delightful Snapdragon has been largely grown in greenhouses during the winter months by florists and gardeners throughout the United States. A splendid half-high sort with flowers of delicate silver-pink. Pkt. $1.

## Giant-Flowered Tall Snapdragons

**Height about 3 feet**

**Coral-Red.** A pretty and attractive shade. Pkt. 10 cts., ¼oz. 35 cts.
**Blood-Red.** Striking in color. Pkt. 10 cts., ¼oz. 35 cts.
**Carmine-Rose.** Carmine; yellow blotch on lower lip. Pkt. 15 cts., ¼oz. 60 cts.
**Chamois.** Very handsome new color. Pkt. 15 cts., ¼oz. 75 cts.
**Album.** Very large; white. Pkt. 15 cts., ¼oz. 40 cts.
**Luteum.** Pure yellow. Pkt. 10 cts., ¼oz. 35 cts.
**Rose Dore.** A pretty shade of self salmon-rose. Pkt. 15 cts., ¼oz. 40 cts.
**Fairy Queen.** Rich salmon, white throat. Pkt. 10 cts., ¼oz. 35 cts.
**Queen Victoria.** A very large white. Pkt. 10 cts., ¼oz. 35 cts.
**Scarlet.** Very attractive. Pkt. 10 cts., ¼oz. 35 cts.
**Special Mixture, Named Sorts.** Pkt. 5 cts., ¼oz. 25 cts., oz. 75 cts.

**Collection:** **10 named varieties** ..... **$1 00**
**5 named varieties** ..... **50**

## Giant-Flowered Semi-Dwarf Snapdragons

**Height about 18 inches**

**Black Prince.** Dark crimson; foliage dark. Pkt. 10 cts., ¼oz. 50 cts.
**Crimson King.** Bright crimson. Pkt. 10 cts., ¼oz. 50 cts.
**Golden Queen.** Rich yellow. Pkt. 10 cts., ¼oz. 35 cts.
**Pink Empress.** Deep rosy pink. Pkt. 10 cts., ¼oz. 40 cts.
**Queen of the North.** White; excellent bedding variety. Pkt. 10 cts., ¼oz. 35 cts.
**Striatum.** Very fine striped. Pkt. 10 cts., ¼oz. 35 cts.
**Special Mixture, Named Sorts.** Pkt. 5 cts., ¼oz. 25 cts., oz. 75 cts.
**COLLECTION: Six named varieties** ..... **$0 50**

ANTIRRHINUM (Snapdragon)

Arctotis grandis

## Giant-Flowered Dwarf Snapdragons

**Height about 12 inches**

These varieties make very fine pot-plants.

| | Pkt. | ¼oz. | | Pkt. | ¼oz. |
|---|---|---|---|---|---|
| **Dwarf White** | $0 15 | $0 50 | **Dwarf Orange** | $0 15 | $0 50 |
| " **Scarlet** | 15 | 50 | " **Rose** | 15 | 50 |
| " **Yellow** | 15 | 50 | " **Striped** | 15 | 50 |
| | | | **Mixture, Named Sorts** | 10 | 25 |

**COLLECTION: Six named varieties** ..... **$0 50**

# ARCTOTIS GRANDIS (African Daisy)

A remarkably handsome annual from southwest Africa. It forms much-branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals pale lilac-blue. There are few annual flowers grown in the garden more valuable for cut-flower work than the Arctotis. It is easily grown from seed, and may be started in hotbed, in the house or in the open ground, the seed germinating in about five days, and the plants may be expected to come into bloom early in July and continue until quite hard frost. It delights in a sunny situation. As a cut-flower it is especially valuable, the blooms lasting a week or ten days in water, and if undeveloped buds are cut and placed in a sunny window, every one will open and produce as fine flowers as though left on the plant. Pkt. 10 cts., ¼oz. 50 cts.

**ARISTOLOCHIA Sipho** (Dutchman's Pipe Vine). A very attractive and highly ornamental climber, with flowers resembling the pitcher plant. Pkt. 10 cts.

## Asparagus

**Plumosus nanus.** A graceful pot-plant for either house or conservatory. Finely cut foliage. Pkt. 25 cts., 100 seeds $1.
**Sprengeri.** Drooping foliage, adapted for hanging-baskets or cutting. Pkt. 25 cts., oz. 75 cts.

S. & W. Co.'s Queen of the Market Strain Asters

# S. & W. CO.'S SUPERB ASTERS

Asters will thrive in any good soil, prepared in the same way as you would for a crop of vegetables, but it is well to remember that any extra care taken in the preparation of the soil is repaid by finer plants, larger blooms, with longer stems and more profuse flowering. They should have an open, sunny position, and prefer a good, heavy, loamy soil enriched with a liberal quantity of Bone Dust No. 2, and an addition of air-slaked lime, and we do not advise growing them on the same ground two years in succession; it is better to change each season. For early flowering, seeds should be started in a sunny window, hotbed or coldframe in April and transferred to their place in the garden as soon as danger of frost has gone by. For August (midseason) and September (late) sow seeds outside in finely prepared ground in May, thinning out to one foot in the rows and two feet between. With the above prescribed treatment and frequent cultivation of plants to insure a steady growth until flowering, excellent large blooms with long stems can be obtained.

## Queen of the Market Aster (EARLY)

| | Pkt. | ¼oz. | Oz. |
|---|---|---|---|
| **Extra-Early White** | $0 05 | $0 50 | $1 50 |
| " " **Crimson** | 05 | 50 | 1 50 |
| " " **Rose** | 05 | 50 | 1 50 |
| " " **Dark Blue** | 05 | 50 | 1 50 |
| " " **Light Blue** | 05 | 50 | 1 50 |
| " " **Flesh-color** | 05 | 50 | 1 50 |
| " " **Pink** | 05 | 50 | 1 50 |
| " " **Scarlet** | 05 | 50 | 1 50 |
| " " **Lilac-Red** | 05 | 50 | 1 50 |
| " " **Finest Mixed** | 05 | 35 | 1 25 |

**COLLECTION: Packet each, 9 varieties ..... $0 40**

## Hohenzollern Aster (MIDSEASON)

This splendid Ostrich-feather Aster comes to bloom after Queen of the Market. The plants grow tall and branching, bearing flowers of mammoth size on exceedingly heavy, long stems. Many stems have measured 18 to 24 inches in length. The flowers are large, frequently measuring 6 to 8 inches in diameter.

| | Pkt. | 500 seeds |
|---|---|---|
| **White** | $0 15 | $0 50 |
| **Dark Blue** | 15 | 50 |
| **Syringa-Blue.** Beautiful blue. | 25 | 1 00 |
| **Rose** | $0 15 | $0 50 |
| **Crimson** | 15 | 50 |
| **Mixed** | 10 | 25 |

**COLLECTION: Packet each, 5 varieties ..... $0 75**

## S. & W. Co.'s Late Branching Aster (LATE)

This exceptionally fine Aster is without a rival. It is as well known in Europe as in America, and although we placed it on the market only a few years ago, today every florist has a fine stock of the flowers in his window just before the chrysanthemum comes in; and it is often mistaken for the chrysanthemum, which it so much resembles. The flowers are of extraordinary size—much larger than other varieties—and stand erect on long, graceful stems, well above the foliage; flower-stems 15 to 20 inches long. Grand for cutting. Plants extra large and of strong growth; one plant will cover a space 2½ feet square. By far the most satisfactory Aster grown.

| | Pkt. | ¼oz. |
|---|---|---|
| **Pure White** | $0 10 | $0 50 |
| **Rose-Pink** | 10 | 50 |
| **Purple** | 10 | 50 |
| **Carmine** | 10 | 50 |
| **Shell-Pink** | 10 | 50 |
| **Lavender** | 10 | 50 |
| **Crimson** | 10 | 50 |
| **Mixed** | 10 | 40 |

**Any of the above, $1.50 per oz.**

**COLLECTION: Packet each, 7 varieties ..... $0 50**

## Dwarf Chrysanthemum-Flowered Aster

A large-flowering Dwarf Aster; grows about 1 foot high. Excellent for ribbon borders, beds or pots. Blooms during August.

| | Pkt. | ¼oz. |
|---|---|---|
| **White** | $0 10 | $1 00 |
| **Deep Blue** | 10 | 1 00 |
| **Fiery Scarlet** | 10 | 1 00 |
| **Light Blue** | 10 | 1 00 |
| **Carmine** | $0 10 | $1 00 |
| **Rose** | 10 | 1 00 |
| **Mixed.** oz. $3.. | 10 | 1 00 |

S. & W. Co.'s Crimson Late Branching Aster

## ASTERMUMS

A splendid new race of American-raised Asters, selected from the Comet Type. The plants are of upright growth frequently having 12 to 15 strong sturdy stems 18 to 24 inches long each carrying enormous flowers of splendid form, the petals completely covering the center so as to give the impression of one of the large Japanese chrysanthemums. This Aster has been grown with excellent success this past season.

| | Pkt. |
|---|---|
| **Snow-White** | $0 25 |
| **Rose-Pink** | 25 |
| **Lavender** | 25 |

**COLLECTION, 1 pkt. each of the above 3, 60 cts.**

## Giant Comet Asters

Flowers of immense size, often 6 inches across, composed of long, wavy, twisted petals, gracefully formed into loose, yet densely double half-globes. Each plant bears 15 to 20 flowers on very long stems, making them especially valuable for cutting.

| | Pkt. | ¼oz. |
|---|---|---|
| **Snow-White** | $0 10 | $1 00 |
| **Rose** | 10 | 1 00 |
| **Light Blue** | 10 | 1 00 |
| **Dark Blue** | 10 | 1 00 |
| **Crimson** | 10 | 1 00 |
| **Shrimp-Pink** | 10 | 1 00 |
| **Yellow** | 10 | 1 00 |
| **Peach** | 10 | 1 00 |
| **Mixed** | 10 | 1 00 |

**COLLECTION, 1 pkt. each of 8 varieties, 60 cts.**

## Giant Crego Asters

A flower of the Giant Comet type, often measuring from 4 to 5 inches in diameter and resembling large chrysanthemums. They are of strong growth, attaining the height of 3 feet.

| | Pkt. | ¼oz. |
|---|---|---|
| **White** | $0 10 | $1 00 |
| **Rose** | 10 | 1 00 |
| **Light Pink** | 10 | 1 00 |
| **Lavender** | 10 | 1 00 |
| **Crimson** | 10 | 1 00 |
| **Mixed** | 10 | 1 00 |

## Single Comet Asters

This type of Asters has met with considerable demand recently. From a decorative point of view the possibilities are immense; their large blooms, often measuring 5 to 6 inches across, make them truly conspicuous.

| | Pkt. | ⅛oz. |
|---|---|---|
| **White** | $0 10 | $0 50 |
| **Light Rose** | 10 | 50 |
| **Bright Rose** | 10 | 50 |
| **Light Blue** | 10 | 50 |
| **Dark Blue** | 10 | 50 |
| **Mixed** | 10 | 50 |

**COLLECTION, 1 pkt. each of 5 varieties, 40 cts.**

## Daybreak

Of symmetrical growth and habit; attains a height of 18 inches, and produces during August in the greatest profusion perfect globe-shaped double flowers, which are of a delicate pink tint. Pkt. 15 cts., 2 pkts. 25 cts.

## Purity

This variety is identical in every way to Daybreak, being of the same symmetrical growth, height and free-flowering qualities; the flowers, however, instead of being pink, are pure glistening white. Pkt. 15 cts., 2 pkts. 25 cts.

## Makado Pink Rochester

A Comet variety, very similar to the Crego's Giant offered, but dwarf in growth and comes into bloom fully two weeks earlier. The plants attain a height of about 18 inches, of branching habit, and the flowers, borne on long, strong stems, are of colossal size, flowers five and six inches across being the rule. A charming shade of pink suffused with lavender. Pkt. 15 cts., 2 pkts. 25 cts.

Astermum

## HARDY PERENNIAL ASTERS

**(Michælmas Daisies)**

These handsome flowers are very beautiful and easy of culture.

| | Pkt. | ¼oz. |
|---|---|---|
| **Alpinus speciosus.** Dark blue; height 2 ft. July | $0 15 | $0 75 |
| **Alpinus albus.** White | 15 | 75 |
| **Bessarabicus.** Pink; 3 feet. August | 10 | 75 |
| **Novæ-Angliæ.** Mixed; 4 feet. September | 10 | 75 |
| **Sub-caeruleus.** Large flowers, 3 inches across; very striking, bold orange-yellow center; 2 feet | 25 | 1 25 |

**ASPERULA odorata** (Sweet Woodruff). Hardy perennial. Handsome creeping plant, with deep green whorled foliage and pretty white flowers. Especially useful for carpeting in shady situations; 6 inches. June and July. Pkt. 10 cts., oz. 80 cts.

**AUBRETIA** (False Wall Cress). Pretty, dwarf-growing rock plants, forming broad masses of silvery green foliage and sheets of flowers in spring and early summer.
**Bougainvillei.** Showy purple flowers. Pkt. 10 cts.
**Leichtlinii.** Bright reddish crimson. Pkt. 10 cts.

**BABY'S BREATH.** See **Gypsophila.**

**BACHELOR'S BUTTON.** See **Centaurea.**

**BALLOON VINE.** Annual climber. Flowers white; seed-vessels like small balloons; pretty foliage; grows rapidly; 8 feet. Pkt. 5 cts., oz. 25 cts.

**BAPTISIA australis** (False Indigo). Hardy perennial. Free-growing plant, with deep green cut foliage and lupine-like dark blue flowers in long racemes. 3 feet. June and July. Pkt. 5 cts., oz. 30 cts.

**BARTONIA aurea.** Hardy annual. Very bright golden flowers from July to September. Fine for cutting. 1 ft. Pkt. 5 cts., oz. 25 cts.

**BOCCONIA cordata** (Plume Poppy, or Tree Celandine). Effective, hardy perennial for single specimens or groups on lawns. Foliage glaucous green, bears freely spikes 2 to 3 feet long of cream-colored flowers; easily raised from seed. 5 feet. Pkt. 5 cts., ¼oz. 15 cts.

DOUBLE BALSAM

## BALSAM (Lady Slipper)

An old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant-colored double flowers in the greatest profusion; of easiest culture; succeeds in a good, rich soil. Tender annuals. 2 feet. Start the seed indoors in April, or sow out-of-doors in May. When specimens are wanted, plant at least 18 inches apart; splendid when grown in pots.

| | Pkt. | Oz. |
|---|---|---|
| **Double Rose** | $0 10 | $1 00 |
| " **White** | 10 | 1 00 |
| " **Lavender** | 10 | 1 00 |
| **Double Yellow** | $0 10 | $1 00 |
| " **Carmine** | 10 | 1 00 |
| " **Scarlet** | 10 | 1 00 |
| " **Finest Mixed** | 10 | 1 00 |

## BEGONIAS (Everblooming Bedding Varieties)

There are no more popular bedding plants than the Begonia of the Semperflorens and Gracilis types. They do well in the full sunlight, and where they receive partial shade are an excellent subject for beds or edgings of beds. Perfect masses of bloom from May until frost. To obtain best results start in January either indoors or in hotbeds.

**Gracilis, Prima Donna.** Limpid rose shaded toward carmine in the center. The plants grow about 10 inches high and form a freely branching bush 10 to 12 inches across, and make a free and continuous display above the fresh green, slightly brown-tinted foliage. Pkt. 25 cts., 5 pkts. $1.

**Gracilis, Bonfire.** Plants grow about 12 inches high, branch freely and produce masses of bloom, which are carried well above the handsome, metallic brown foliage. The individual flowers are comparatively large and are of a lustrous carmine-scarlet. Pkt. 25 cts., 5 pkts. $1.

**Gracilis luminosa.** Brilliant fiery dark scarlet, very bright. Pkt. 25 cts., 5 pkts. $1.

**Semperflorens Erfordii.** A very popular variety of bright rosy carmine color. Pkt. 15 cts., 2 pkts. 25 cts.

**Semperflorens, Triumph.** Pure glistening white; splendid for contrasting. Pkt. 15 cts., 2 pkts. 25 cts.

**Semperflorens, Vernon.** Bright orange-carmine flowers, deep red foliage. Pkt. 10 cts.

**Semperflorens, Rose.** Pkt. 10 cts.

**Semperflorens, White.** Pkt. 10 cts.

**Tuberous-rooted, Single Mixed.** Pkt. 25 cts.

**Tuberous-rooted, Double Mixed.** Pkt. 25 cts.

## BELLIS (English Daisy)

A favorite perennial, which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Easily raised from seed, which may be sown anytime from spring until August. For best results, new plants should be raised from seed each year. The following are the finest double-flowering kinds, selected after careful test.

| | Pkt. | | Pkt. |
|---|---|---|---|
| **Giant-flowering White** | $0 25 | **Snowball.** White | $0 10 |
| " " **Pink** | 25 | **Longfellow.** Pink | 10 |
| " " **Mixed** | 25 | **Double Red Quilled** | 25 |

**BEAN, Scarlet Runner.** The well-known rapid-growing annual climber, with bright red flowers from July to September. Fruit is a most delicious vegetable. 8 feet. Pkt. 5 cts., ½pt. 15 cts.

**BRACHYCOME** (Swan River Daisy). Free-flowering, dwarf-growing annuals, covered during the greater part of the summer with a profusion of pretty blue or white flowers, suitable for edgings, small beds or pot culture; 9 inches.

**Iberidifolia, Blue.** Pkt. 5 cts. **Iberidifolia, White.** Pkt. 5 cts.

## BROWALLIA (Amethyst)

One of our favorite profuse-blooming bedding plants, covered with rich, beautiful winged flowers during the summer and autumn months, supplying a shade of intense blue very uncommon; grows freely in any rich soil; blooms finely in the winter if the plants are lifted in autumn and cut back.

**Speciosa major.** A beautiful-flowering variety of the most brilliant ultramarine blue; a rare color; does finely outside in the border, or in hanging-baskets or vases, but is especially valuable as a pot-plant for winter and early spring flowering. Pkt. 15 cts.

**Nana compacta.** Blue. Pkt. 10 cts.

**Mixed Colors.** Pkt. 5 cts.

**CACALIA coccinea** (Tassel Flower, or Flora's Paint-brush). A neat annual, of easy culture, with bright red, tassel-shaped flowers; blooms from June to September, fine for borders. Pkt. 5 cts., ¼oz. 25 cts.

## CALCEOLARIA G. P.

The strains offered herewith are grown by a famous English seed-growing specialist and are the finest in existence. James' and Carter's strains are intended for conservatory growing; the Rugosa for outside bedding.

**James' Giant Strain.** Pkt. 50 cts.

**Carter's Prize Strain.** Pkt. 50 cts.

**Rugosa.** Shrubby; for bedding. Pkt. 50 cts.

## CHELONE (Turtle Head)

**Barbata coccinea.** Red. Summer. 3 ft. Pkt. 10 cts.

**Barbata Torreyi.** Coral-red. Summer. 3 feet. Pkt. 10 cts.

**Lyonii.** Deep red. Summer. 2 feet. Pkt. 10 cts.

**CERASTIUM tomentosum** (Snow-in-Summer). A very pretty dwarf, white-leaved edging plant, bearing small white flowers; hardy perennial. Pkt. 15 cts.

CARTER'S PRIZE STRAIN CALCEOLARIA

## CALENDULA (Pot Marigold)

This is one of the best and showiest, free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders; particularly bright in late fall, continuing in bloom from early summer until killed by frost; valuable also for pot culture, blooming freely in winter and early spring. 1 foot.

**Meteor.** Large; double; yellow, each petal striped with orange. Pkt. 5 cts., oz. 25 cts.
**Prince of Orange.** Similar to Meteor, but darker. Pkt. 5 cts., oz. 25 cts.
**Sulphurea fl. pl.** Large, double flowers of pleasing sulphur-yellow. Pkt. 5 cts., oz. 25 cts.
**Ranunculoides fl. pl.** Striped and margined. Pkt. 5 cts., oz. 25 cts.
**Pongeii fl. pl.** Large, double, white flowers. Pkt. 5 cts., oz. 25 cts.

Calendula

## CALLIOPSIS

Showy and beautiful, free-flowering annuals and perennials, of the easiest culture, doing well in any sunny position, blooming all summer and excellent for cutting and massing. It is best to sow them where they are to bloom, thinning out to stand 6 inches to 12 inches apart. By keeping the old flowers cut off the flowering season can be lengthened until late autumn.

Campanula pyramidalis

### ANNUAL VARIETIES

**Golden Wave** (Drummondii). A very popular sort, with rich golden yellow blooms with a small chestnut-brown center. 12 inches. Pkt. 5 cts., ¼oz. 15 cts.
**Tinctoria marmorata.** Very showy variety; bright golden yellow flowers, marbled with wallflower-red. 12 inches. Pkt. 5 cts., ¼oz. 15 cts.
**Coronata.** Rich yellow, slightly spotted with red. Pkt. 5 cts., ¼oz. 15 cts.
**Tall, Mixed.** Pkt. 5 cts., ¼oz. 15 cts.
**Dwarf, Mixed.** Pkt. 5 cts., ¼oz. 15 cts.

### PERENNIAL VARIETIES

The following two varieties of Perennial Calliopsis are usually sown in June and transplanted 18 to 24 inches apart. Give slight winter covering. May be had in flower the first year if sown under glass in January.

**Grandiflora.** Deep golden yellow, cup-shaped flowers, on fine stems for cutting. 2 feet. All summer. Pkt. 10 cts., oz. 50 cts.
**Lanceolata grandiflora.** Same as above except that the foliage is lanced. Pkt. 10 cts., oz. $1.

## CAMPANULA, or BLUEBELLS

### PERENNIAL VARIETIES

These are among our best-known hardy perennials. The tall varieties are fine for cutting, while the dwarf sorts make excellent border plants. All have dainty bell-shaped flowers. Some of the varieties offered will flower the first season from seed if sown early.

FOR BIENNIAL VARIETIES, SEE NEXT PAGE

**Carpatica.** This variety is largely used for edging. Flowers of deep blue, blooming all summer. Height about 6 inches. Pkt. 10 cts., ¼oz. 30 cts.
**Carpatica alba.** The white-flowered form of the above. Pkt. 10 cts., ¼oz. 30 cts.
**Macrantha.** Blue. Pkt. 10 cts., ¼oz. 30 cts.
**Persicifolia grandiflora, Blue** (Peach Bells). One of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large, blue flowers. Pkt. 15 cts.
**Persicifolia grandiflora alba.** The white-flowered form of the above. Pkt. 15 cts.
**Persicifolia fl. pl. Moerheimi.** Similar to the varieties above except that the flowers are double; pure white. Pkt. 20 cts., 3 pkts. 50 cts.
**Persicifolia, Fairy Queen.** The finest-colored Bluebell. Rich azure-blue, very large flowers. Pkt. 25 cts.
**Pyramidalis** (Chimney Bellflower). Spikes 3 to 4 feet tall; erect, pyramidal flowers, large and of beautiful blue. Splendid for both garden and pot culture. Pkt. 10 cts., ¼oz. 30 cts.
**Pyramidalis, White.** Pkt. 10 cts.
**CANARY-BIRD FLOWER** (Tropæolum). A rapid-growing, climbing annual, producing hundreds of its pretty, fringed, bright yellow flowers, which resemble a canary-bird with expanded wings. Pkt. 5 cts., oz. 50 cts.

## CAMPANULA MEDIUM

### (Canterbury Bell)

These are strictly biennials and require to be sown from June 1 to September 1: when strong enough, transplant to a distance of 6 inches apart; after frost has set in, protect with leaves and straw. They flower the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them.

| | Pkt. | Oz. | | Pkt. | Oz. |
|---|---|---|---|---|---|
| **Single White** | $0 10 | $0 50 | **Single Striped** | $0 10 | $0 50 |
| **Single Rose** | 10 | 50 | **Single Mixed** | 05 | 35 |
| **Single Blue** | 10 | 50 | **Double Mixed** | 10 | 75 |

## CAMPANULA CALYCANTHEMA

### (Cup-and-Saucer)

These produce beautiful, large, single flowers, resembling a cup and saucer; they require the same treatment as *Campanula Medium.*

| | Pkt. | ¼oz. | | Pkt. | ¼oz. |
|---|---|---|---|---|---|
| **Blue** | $0 10 | $0 50 | **Rose** | $0 10 | $0 50 |
| **White** | 10 | 50 | **Striped** | 10 | 50 |
| | | | **Mixed** | 10 | 40 |

CAMPANULA MEDIUM

# CANDYTUFT (Iberis)

## HARDY ANNUALS

The Candytuft is almost as fragrant as the sweet alyssum and very popular. Very useful as a bedding plant or for border work. Sow outdoors in April, where it is to bloom, and thin well when the plants grow about 1 inch. Sow also in July for fall blooming. Where grown in rows best results for cut-flowers can be obtained only by giving the plants at least a foot apart in the rows and 1½ feet between the rows.

## S. & W. Co.'s Giant Hyacinth-Flowered

Immense white spikes; largely grown for cut-flowers. Pkt. 25 cts., oz. $3.

**Empress.** Also grown to a great extent for cut-flowers. Pkt. 10 cts., oz. $1.
**Queen of Italy.** Fine pink. Pkt. 10 cts., oz. 50 cts.
**Rose-Cardinal.** Deep pink. Pkt. 10 cts., oz. $1.
**Dunnett's Crimson.** Deep crimson. Pkt. 10 cts., oz. 30 cts.
**Carmine.** Pkt. 5 cts., oz. 35 cts.
**Dwarf Hybrids, Mixed.** Pkt. 10 cts., oz. 50 cts.
**White Rocket.** Large trusses. 1 foot. Pkt. 5 cts., oz. 35 cts.
**Pink Beauty.** New. Fine pink. 1 foot. Pkt. 15 cts., oz. $1.50.
**Lilacina.** Lilac. 1 foot. Pkt. 5 cts., oz. 25 cts.
**Purple.** Purple. 1 foot. Pkt. 5 cts., oz. 25 cts.
**Mixed, All Colors.** Pkt. 5 cts.

GIANT HYACINTH-FLOWERED CANDYTUFT

## PERENNIAL CANDYTUFT

A very early-flowering variety; largely used in the hardy border. Foliage exceedingly pleasing in color and very decorative.
**Gibraltarica.** White, shaded pink. Pkt. 25 cts.
**Sempervirens.** Pure white flowers; evergreen foliage. Pkt. 10 cts.

# CARNATION

These well-known favorites are highly prized for the delicious perfume of their flowers, grown in pots or in the open ground. No flowers can be finer or more worthy of cultivation. The Marguerite Carnation will bloom in four months from the time of sowing. The flowers are of magnificent colors, ranging through many shades of pink, red, white and variegated. Hardy perennials.

**Earliest French Chabaud.** New hardy class, combining the perfection of flowers of the perpetuals with the earliness of Marguerite Carnations, blooming seven months after being sown. Pkt. 25 cts.

**Benary's Non Plus Ultra Border.** Finest mixed. Saved from flowers of finest quality only. Pkt. 25 cts.

**Perpetual,** or **Tree.** Upright growth and branching habit, flowering several times during the season. 2 feet. Pkt. 10 cts.

**Early Dwarf Vienna.** Flowers very early; extra fine. Pkt. 10 cts.

**GIANT MARGUERITE.** Without exception these are the most abundant bloomers of all the Carnation Pinks. Flowers are of brilliant colors, ranging through many beautiful shades of red, pink, white, variegated, etc. Perfect form, large size. Sown in spring, commence flowering in early summer, and continue to bloom in lavish profusion until checked by frost. Finest mixed. Pkt. 10 cts., ¼oz. $1, oz. $3.

## CASTOR-OIL PLANT (Ricinus)

The Ricinus are tall, stately growing plants of tropical appearance; their luxuriant foliage renders them exceedingly ornamental. They are free-growing, tender annuals of easy cultivation. Half-hardy annuals.

| | Pkt. |
|---|---|
| **Africanus.** Very large green foliage | $0 05 |
| **Zanzibarensis.** New Giant Castor-Oil Plant from Africa | 10 |
| **Barboniensis arboreus.** Large and handsome green foliage. 15 feet | 05 |
| **Communis** (Castor-Oil Plant). Green foliage. 6 feet | 05 |
| **Gibsonii.** Dark, purplish-red foliage. 6 feet | 05 |
| **Cambodgensis.** Leaves bronzy maroon, with red veins; stems black | 05 |
| **Duchess of Edinburgh.** Dark red foliage. 6 feet | 05 |
| **Gibsonii Mirabilis.** Dwarf, compact; very fine | 05 |
| **Sanguineus.** Tricolor, red spotted; fruit in clusters; red foliage. 10 feet | 05 |
| **Mixed** | lb. $1, oz. 15 cts... 05 |

# CELOSIA

## Celosia cristata (Cockscomb)

Free-blooming annuals, growing best in rather light soil, not too rich; make grand border plants and are attractive for pots. Seed can be sown under cover in early spring and planted out in May, or may be sown outdoors in May. If dwarf growth is desired, do not crowd.

**Empress.** Rich crimson. 1 foot. Pkt. 10 cts., ¼oz. 50 cts.
**Glasgow Prize.** Dark crimson. 1 foot. Pkt. 5 cts., ¼oz. 50 cts.
**Dwarf Mixed.** 1 foot. Pkt. 5 cts., ¼oz. 40 cts.

**COLLECTION, 6 pkts. Dwarf varieties, 25 cts.**

## Celosia plumosa (Feathered Cockscomb)

Make fine plants for large beds or groups, and the plumes or flowers can be cut and dried for winter bouquets. Should be treated same as Cockscomb described above.

**Ostrich-plumed, Yellow** or **Crimson.** Pkt. 10 cts., ¼oz. 50 cts.
**Ostrich-plumed, Mixed.** Pkt. 10 cts., ¼oz. 50 cts.
**Spicata.** Rose, changing to silvery white; fine for pots, cutting and drying. Pkt. 25c., ¼oz. 75c.

**Celosia Thompsonii magnifica.** **(Improved Strain of Feathered Cockscomb.)** Thompsonii Magnifica is of pyramidal growth, often attaining the height of three feet, and producing graceful, feathery plumes of the most magnificent shades, ranging from the clearest yellow to the darkest blood-red.

Celosia, Thompsonii Magnifica (Improved Strain)

**Thompsonii Magnifica, Crimson.** Bright crimson. Pkt. 25 cts., ¼oz. 75 cts.

**Thompsonii Magnifica, Yellow.** Beautiful yellow. Pkt. 25 cts., ¼oz. 75 cts.

**Thompsonii Magnifica, Mixed.** Pkt. 25c., ¼oz. 75c.

CELOSIA, PRIDE OF CASTLE GOULD

## Celosia, Pride of Castle Gould

An entirely distinct type of the *Celosia pyramidalis plumosa*, and surpasses by far anything thus far placed on the market. This strain has through constant culture and careful selection and hybridization proven its superiority to anything similar ever offered.

HABIT OF PLANTS.—Pyramidal, compact growth of from 2 to 3 feet, with immense, extra-fine feathered heads, gives the plant a most striking appearance.

COLOR.—The following distinct colors are among these hybrids: Blood-red, real carmine, golden yellow, salmon, deep scarlet, dark orange and wine-red; however, by variation there will be found many more shades; the selfcoloring will be surprising.

**This illustration is from a photograph taken this summer on the estate of M. C. D. Borden, Oceanic, N. J. (William Turner, Supt.). The following is a description by William Turner: "Celosia Castle Gould is admirably adapted for growing along in pots for decorative purposes or for planting out in beds, provided the beds are situated to receive full benefit from the sun's rays. Castle Gould is a decided improvement over all other Celosias, both for richness of colors and the massive plumes this variety produces. Being a free, vigorous grower, it is not necessary to sow the seed for outdoor planting until say the middle of March. They would then be nice, vigorous plants in 3- or 3½-inch pots, ready for placing in the beds about the end of May. With a little care, they would be a mass of gorgeous plumes until killed down by frost." Per pkt., mixed shades, 25 cts.**

# CENTAUREAS

There is, perhaps, no more popular annual than the Centaurea. Will grow well anywhere and as a cut-flower is much in demand.

## Cornflowers (*Centaurea Cyanus*)

**SOMETIMES CALLED BACHELOR'S BUTTON, BLUE BOTTLE, RAGGED SAILOR, ETC.**

This type of Centaurea is well known and no garden is complete without them. Seeds should be sown in the spring or fall. When large flowers are wanted, plants should be thinned out to a space of say 8 square inches.

| | | Pkt. | Oz. |
|---|---|---|---|
| **Cyanus, Emperor William, Blue.** | Well-known favorite cut-flower | $0 05 | $0 25 |
| " | **Rose** | 05 | 25 |
| " | **White** | 05 | 25 |
| " | **Victoria.** A very dwarf mixture, used for border or pots; grows 8 inches high | 15 | 1 00 |
| " | **Mixed Single** | 05 | 25 |

## Cyanus, Double Emperor William.

A variety largely used by the commercial florist on account of its large size. Much in demand for cutting, taking fewer than the single varieties to make a bunch. 15 1 50

**Cyanus, Double Mixed** ..... 10 40

## Giant Sweet Sultans (*Centaurea imperialis*)

This beautiful class is undoubtedly the finest of all the Sweet Sultans for cutting purposes. Beautiful, deliciously sweet-scented flowers are borne on long, strong stems and are particularly striking, lasting several days after cutting. We recommend sowing in succession every two weeks until July, thereby giving a continuous bloom from summer to fall.

**Imperialis, White.** Large and deliciously sweet-scented.
" **Armida.** Pink, with white tinge; very delicate color.
" **purpurea.** Brilliant purple-rose.
" **lilacina.** Lilac.
" **rosea.** Beautiful brilliant rose.
" **Mixed.**

**Each, pkt. 10 cts., ½oz. 60 cts.**

**COLLECTION. One packet each, five varieties, 50 cts.**

CENTAUREA IMPERIALIS (Giant Sweet Sultan)

CENTAUREA CYANUS (Cornflower)

## Four Fine Centaureas (For Greenhouse Growing)

The following four varieties are largely grown by Florists during the winter months for cut-flowers.

| | Pkt. | Oz. |
|---|---|---|
| **Suaveolens.** (Yellow Sweet Sultan.) Very showy bright yellow flowers; sweetly scented | $0 05 | $0 60 |
| **Odorata.** Beautiful large flowers of light blue color; deliciously scented | 10 | 1 00 |
| **Odorata, Chameleon.** Large flowers of pale sulphur-yellow, changing to rosy lilac | 10 | 2 00 |
| **Marguerite** (Giant White Cornflower). Flowers 4 inches across, purest white and very fragrant | 10 | 1 00 |

## White-leaved Centaureas (Dusty Millers)

Extensively used for edging of beds or borders of the flower garden. The glistening white contrasted with the bright color of the Coleus, Salvia or Red Canna is very striking.

| | Pkt. |
|---|---|
| **Candidissima.** Thick white leaves grown for their foliage only and make excellent plants for edgings. They are hardy annuals and grow rapidly. Leaves are very lanced and are silver-coated.. ⅛oz. 25 cts.. | $0 10 |
| **Gymnocarpa** (Dusty Miller). Leaves fern-like and a trifle taller than Candidissima ..... ⅛oz. 25 cts... | 10 |

## Various Centaureas

| | Pkt. | Oz. |
|---|---|---|
| **Moschatus coerulea** (Sweet Sultan) **Blue.** Identical in color with Emperor William in the regular Bachelor Button type.. | $0 05 | $0 30 |
| **Moschatus, White** | 05 | 30 |
| " **Mixed** | 05 | 25 |

# CINERARIA

Seed should be sown from May to September where a succession is desired. When sown at this time, fine plants may be secured. The main point in the culture of Cinerarias is to secure as hardy a growth as possible with leaves of medium size. Seed may be transferred direct from seed-pans to thumb-pots. After planting, place in coldframe facing north, if possible. As pots become full of roots, shift to larger ones until flowering size is reached.

**S. & W. Co.'s Giant-flowering Mixed.** This strain of Prize Cineraria is grown for us by a famous English seed specialist. The flowers seldom measure less than 3 inches in diameter, comprising the following colors: White, rose, flesh, crimson, blue, violet, etc. The plants are of a very robust dwarf habit, which, combined with the mass of giant blooms, makes this strain exceedingly valuable. Pkt. 50 cts.

**Matador.** A new, large-flowering, deep scarlet; one which adds brilliance to a collection. Pkt. 50 cts.

**S. & W. Co.'s Stellata** Delicate star-like blooms are borne in great profusion on long stems, giving this variety a double use, as it is excellent for cutting as well as decorative purposes; all shades.

**Tall Mixed.** Pkt. 50 cts.

**Dwarf Mixed.** Pkt. 50 cts.

S. & W. Co.'s Giant-flowering Cineraria

# CHRYSANTHEMUM

## ANNUAL

These are very showy flowers of easiest cultivation, flowering from July to frost. Excellent for cutting. This type of Annual Chrysanthemum must not be confused with those seen in the florist's window in the fall of the year, which are grown from cuttings. 2 feet.

**Single, Finest Mixed.** Pkt. 5 cts., oz. 30 cts.

**Double, Finest Mixed.** Pkt. 5 cts., oz. 40 cts.

**Single, Beaconsfield.** White, pink center. Pkt. 5 cts., oz. 40 cts.

**Single, The Sultan.** Deep scarlet. Pkt. 5 cts., oz. 40 cts.

**Single, Burridgeanum tricolor.** White, with crimson ring. Pkt. 5 cts., oz. 40 cts.

**Single, Chameleon.** New. Brown, with yellow. Pkt. 10 cts., oz. 50 cts.

**Single, Eclipse.** Yellow, crimson ring. Pkt. 5 cts., oz. 40 cts.

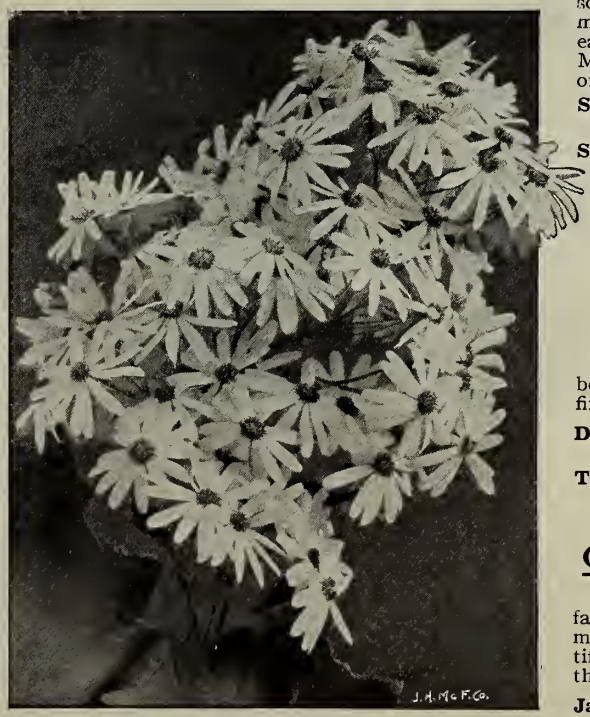
**Double, Fringed, Mixed.** This is a most graceful flower. Pkt. 10 cts., oz. $1.25.

## PERENNIAL

**Maximum** (Hardy White Daisy). Large flowers; perfectly hardy. 3 ft. July to October. Pkt. 10 cts., oz. 75c.

**Maximum leucanthemum** (Common Shasta Daisy). Pure white, very large. 3 ft. July to October. Pkt. 10 cts., ⅛oz. 50 cts.

**Uliginosum** (Giant Daisy). One of the best late-blooming perennials from Russia. Stout, upright plants, with pure white flowers. 5 ft. August to October. Pkt. 25 cts., ⅛oz. $1.



Cineraria, S. & W. Co.'s Stellata

# CLARKIA ELEGANS

A mighty handsome annual, which should be far more widely known. It is of easy cultivation, graceful in habit of growth, and lends itself as well to bedding as for cutting. The flowers are borne all along the stems and resemble carnations to quite an extent. 1 ft. July to October.

| | Pkt. | Oz. |
|---|---|---|
| **Single Rose** | $0 05 | $0 30 |
| " **White** | 05 | 30 |
| " **Mixed** | 05 | 25 |
| **Double Salmon Queen.** | 10 | 50 |
| " **White King** | 10 | 50 |
| " **Rose** | 10 | 50 |
| " **Finest Mixed** | 10 | 40 |

**CLEMATIS** (Virgin's Bower). Beautiful ornamental plants, fine for covering trellises or making a screen. Seeds vegetate only after an interval of several months, when they will grow with tolerable certainty. Hardy perennial.

**Jackmani Varieties.** Seed saved from best-named varieties. Pkt. 10c.

**CLERODENDRON fallax.** Handsome, erect-growing greenhouse plants; large spikes of fiery scarlet bloom. Pkt. 75 cts.

**CLEOME pungens** (Giant Spider Flower). Singular-looking, rose-colored flowers; the stamens look like spiders' legs, and present a very attractive appearance; annual; 3 feet. This plant is now used extensively in many of the public parks, planted among shrubbery, and is very effective. Pkt. 5 cts., ¼oz. 15 cts.

**CLIANTHUS Dampieri.** Greenhouse plants, with pea-shaped scarlet flowers. Seed should be soaked in water before sowing. Pkt. 25 cts.

# COBÆA (Cup-and-Saucer Vine)

A climber of rapid growth, attaining a height of 30 to 50 feet during the season, valuable for covering trellises, arbors, trunks of trees, etc.; will cling to any rough surface. In sowing, place seeds *edgewise* and merely cover with light soil; to get early results, start the seed indoors in March or April; can also be sown out-of-doors in May.

**Scandens.** Large bell-shaped purple flowers. Pkt. 10c., ¼oz. 25c.

**Scandens alba.** Pure white. Pkt. 10 cts.

**COLEUS, S. & W. Co.'s Exhibition Strain Mixed.** Pkt. 20 cts.

# CONVOLVULUS

## (Morning-Glory)

These well-known favorites ought to be in every garden. Nothing can be finer for color than a bed of these.

**Dwarf Bedding Variety.** Mixed. Pkt. 5 cts., oz. 20 cts.

**Tall** or **Climbing Variety.** Mixed. Pkt. 5 cts., oz. 20 cts.

## Giant Imperial Japanese

A magnificent advance on the old-fashioned Morning-Glories. The enormous flowers, exquisite colors and beautiful foliage make them, without doubt, the most beautiful climbers in existence.

**Japanese Mixed.** Pkt. 10 cts., oz. 25 cts., ¼lb. 50 cts.

MAMMOTH TALL WHITE COSMOS

# COSMOS

This is one of the most notable summer and fall flowers, the specialists' skill having added much to its beauty. Many professional gardeners sow their Cosmos late in the spring, as it has been demonstrated, particularly with the Late Mammoth-flowering Tall Cosmos, that early sowing frequently makes enormous, heavy-wooded plants which do not flower any earlier than if sown later.

We recommend the sowing of Cosmos about the first of May, outdoors in rows, covering the seed about ¼inch, and when the plants are about 3 inches high, thin out or transplant to not less than 2 feet apart. Any garden soil will grow Cosmos to perfection; frequent cultivation around the base of the plants will greatly benefit them.

## Extra-Early Flowering Dwarf Cosmos

Frequently the amateur finds that the Cosmos of the Late-flowering Tall type, selected by him for growing in borders or beds with other annual flowers, is unsuitable because of it flowering late in the summer, and also growing to the height of 6 to 8 feet. We, therefore, take pleasure in offering this new Early-flowering Dwarf Cosmos, which, if sown outdoors about the first of May, will give an abundance of cut-flowers for the table or home decoration from July until cut down by frost.

This type of Cosmos grows about 4 feet high, and while the flowers are not quite so large as the Late Mammoth-flowering type offered on this page, they are admirably adapted to the use of the suburbanite whose garden-space is small. To those who desire the larger-flowering type, which flowers late, after most other flowers are past, we recommend our Late Mammoth-flowering Tall Cosmos.

| | Pkt. | ¼oz. | Oz. |
|---|---|---|---|
| **Early-flowering, White** | $0 10 | $0 75 | $2 50 |
| " " **Pink** | 10 | 75 | 2 50 |
| " " **Crimson** | 10 | 75 | 2 50 |
| " " **Mixed** | 10 | 75 | 2 50 |

## Late Mammoth-Flowering Tall Cosmos

This type of Cosmos, which has been greatly improved over the old tall small-flowering varieties, flowers late in the summer—usually September in this latitude—and coming at this season of the year, when nearly everything in the garden has finished blooming, it is a very desirable addition.

These tall, graceful plants are most effective when planted in broad masses along background borders against evergreens or shrubs. The gigantic flowers, borne on long stems, and the feathery foliage lend themselves to graceful arrangements for bouquets.

| | Pkt. | Oz. |
|---|---|---|
| **Mammoth Tall, White** | $0 10 | $1 00 |
| " " **Pink** | 10 | 1 00 |
| " " **Crimson** | 10 | 1 00 |
| " " **Mixed** | 10 | 1 00 |
| **Choice Mixed** | 05 | 50 |

**Lady Lenox.** This is the very latest development of this popular autumn flower, bearing gigantic flowers, the petals having a wide overlapping character and of splendid substance; its beautiful, deep rosy pink color and splendid form make this Cosmos one of the most widely grown. Pkt. 10 cts., ¼oz. 50 cts., oz. $1.50.

**Lady Lenox, White.** Similar to above, but white. Pkt. 15 cts., ¼oz. $1, oz. $3.

---

**CIGAR PLANT** (Cuphea). With cigar-shaped, scarlet flowers; very useful for bedding; free bloomer. Half-hardy perennial.

**PLATYCENTRA.** Scarlet and white. Pkt. 10 cts.

**COREOPSIS.** See **Calliopsis.**

**CYPRESS VINE** (*Ipomœa Quamoclit*). The most popular of annual climbing plants, with delicate, fern-like foliage. Half-hardy annual.

| | Pkt. | Oz. | | Pkt. | Oz. |
|---|---|---|---|---|---|
| **Crimson** | $0 05 | $0 30 | **Rose** | $0 05 | $0 30 |
| **White** | 05 | 30 | **Mixed** | 05 | 30 |

**DAHLIA.** The seed we offer has been saved from a superb collection of the finest named varieties. Half-hardy perennial.

| | Pkt. |
|---|---|
| **Double Mixed** | $0 10 |
| **Single Mixed** | 10 |
| **20th Century, Novelty** | 25 |

**DATURA** (Trumpet Flower). Half-hardy annual.

| | Pkt. | Oz. |
|---|---|---|
| **Cornucopia.** White and purple | $0 10 | $1 00 |
| **Finest Mixed** | 05 | 40 |

## S. & W. Co.'s Giant-flowering Cyclamen

Flowers of extraordinary size and of great substance. The leaves are proportionately large and beautifully marked. These are among the most beautiful winter- and spring-flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental. Sow seed from August to September and do not permit same to become checked. When grown cool, most satisfactory results are obtained. Our strain is selected by a well-known English Cyclamen grower.

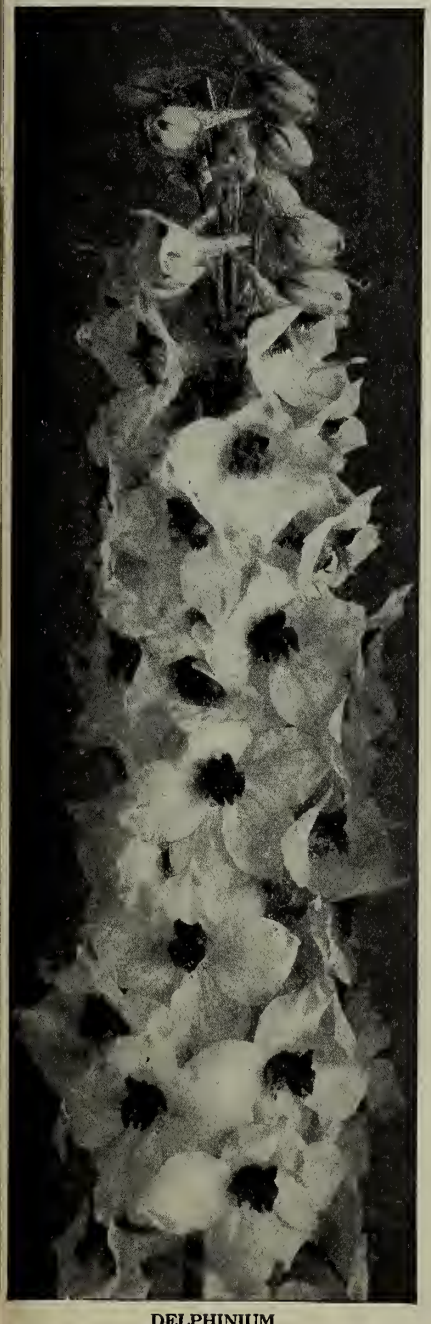
| | Pkt. | 100 seeds |
|---|---|---|
| **Giant Salmon-Red** | $0 25 | $1 25 |
| **Giant Rose** | 25 | 1 25 |
| **Giant Pure White** | 25 | 1 25 |
| **Giant Dark Red** | 25 | 1 25 |
| **Giant Lilac** | 25 | 1 25 |
| **Giant Cattleya Purple** | 25 | 1 25 |
| **Giant Rose-Salmon** | 25 | 1 25 |
| **Giant Pale Rose** | 25 | 1 25 |
| **Giant White, Red Eye** | 25 | 1 25 |
| **Giant Light Red** | 25 | 1 25 |
| **Giant White, Striped Violet** | 25 | 1 25 |
| **Giant Prize Mixed** | 25 | 1 25 |

S. & W. Co.'s Giant-flowering Cyclamen

## S. &. W. Co.'s Victoria

This is a particularly fine strain, with beautiful, fringed, white-and-rose flowers; very large, and last a long time after blooming. Pkt. 25 cts., 100 seeds $1.50.

**COWSLIP.** The well-known favorite English Cowslip (*Primula veris*), hardy, flowering in early spring. ¾ foot high. Mixed colors. Pkt. 5 cts.



DELPHINIUM

## DELPHINIUM (Perennial Larkspur)

There is perhaps no better known hardy plant than the Delphinium. The beautiful flowers borne on tall stately spikes are a gorgeous sight and a charm to the garden. Sow seeds in early spring in shallow boxes indoors or in a hotbed. When seedlings are about ½ inch high, transplant to flats 3 or 4 inches apart each way. About a week before planting out remove to the open, taking care to protect them on cold days and nights. Set out 6 inches apart in the garden. Plants treated thus usually flower first season during August. In the fall they may be lifted and set out in groups of colors; three or four plants at a distance of 3 feet apart, in the rear of hardy perennials, where they make a fitting background.

**Gold Medal Hybrids.** This splendid strain is of strong, vigorous habit, with immense spikes from 2 to 3 feet long, of large flowers mostly in fine shades of light blue. We doubt very much if this wonderful strain can be surpassed, and recommend all our patrons desirous of obtaining some choice plants to grow these hybrids. Pkt. 25 cts., 5 pkts. $1.

| | Pkt. | ½oz. |
|---|---|---|
| **Chinense** (Blue Butterfly). A distinct and neat variety, growing about 18 inches high, with fine, feathery foliage, and producing freely spikes of large blossoms of intense gentian-blue | $0 10 | $1 00 |
| **Album.** The white-flowered form of the preceding | 10 | 75 |
| **Barlowii.** Very large dark blue flowers, extra-fine | 25 | 2 00 |
| **Belladonna** (Everblooming Hardy Larkspur). This is one of the finest and most continuous-blooming hardy Larkspur. The clear turquoise-blue of its flowers is not equaled for delicacy and beauty .....5 pkts. $1.. | 25 | |
| **Cardinale.** A very beautiful cardinal-scarlet; plants grow about 18 inches high. | 25 | 2 00 |
| **Formosum.** Large; rich dark blue, white center; borne on spikes 2 to 3 feet tall; one of the most popular varieties | 10 | 1 00 |
| **Formosum cœlestinum.** Beautiful sky-blue, white center; similar in habit to the above | 20 | 1 50 |
| **Hybridum fl. pl.** A grand mixture of double varieties, taking in a great range of colors | 15 | 1 50 |
| **Nudicaule.** Dwarf compact growth, with spikes of bright scarlet flowers. 18 in. | 25 | |

## DOLICHOS (Hyacinth Bean)

A rapid-growing annual climber, flowering freely in erect racemes, followed by ornamental seed-pods; for covering arbors, trellises, etc. Sow the seed in the garden in beds where they are to remain. 10 feet.

| | Pkt. | Oz. |
|---|---|---|
| **"Daylight."** This grand Hyacinth Bean comes from Japan. In our trial-grounds seed sown late in May it had, by the middle of July, attained a height of over 10 feet, and was covered with spikes of snow-white pea-shaped blossoms from then until late fall. The heart-shaped foliage is bright green, and not affected by insect pests | $0 10 | $0 50 |
| **"Darkness."** Identical in every way with the above, except in color, which is a rich purple-violet | 10 | 50 |
| **Lablab, Mixed** | 05 | 25 |

# DIANTHUS, or PINKS

The family of Pinks is unrivaled for brilliancy and rich variety of color; the plants are bushy, of symmetrical form—blooming profusely until fall, rendering them most satisfactory for summer flower gardens. Sow out-of-doors when danger of frost has passed and they will in several weeks become a mass of bloom, continuing until frost.

## DOUBLE ANNUAL VARIETIES

| | Pkt. | ¼oz. |
|---|---|---|
| **Chinensis fl. pl.** (China, or Indian Pink). Blooms in clusters, flowers very double and bloom in a large range of bright colors | $0 05 | $0 25 |
| **Diadematis fl. pl.** (Double Diadem Pink). Beautiful double flowers; mixed of various tints of lilac, crimson, purple; outer edges fringed | Oz. $1. 10 | 35 |
| **Heddewigii fl. pl.** (Double Japan Pink). Double mixed, color varying from richest crimson to most delicate rose | Oz. 75 cts... 10 | 25 |
| **Fireball.** New. Extra double brilliant dark scarlet, very beautiful | 15 | 1 00 |
| **Snowball.** Large double white; excellent for border or cutting | 10 | 50 |
| **Salmon King.** Brilliant salmon-rose | 10 | 50 |
| **Lucifer.** Brilliant orange-scarlet, flowers measuring about 2 inches across; very dazzling and popular variety; nicely fringed | 15 | 1 00 |
| **Laciniatus fl. pl.** (Double Fringed Pink). Large double flowers, edges fringed; in a great variety of colors | 10 | 50 |

## SINGLE ANNUAL VARIETIES

These single sorts contain many beautiful varieties, flowers often measuring 2 to 3 inches in diameter, and are very effective for borders or beds.

| | Pkt. | ¼oz. |
|---|---|---|
| **Crimson Belle.** Rich crimson. 1 foot | $0 10 | $0 50 |
| **Queen of Holland.** Beautiful white | 10 | 75 |
| **Eastern Queen.** Delicately marbled rose and mauve flowers | 10 | 50 |
| **Salmon Queen.** Beautiful fringed flowers of brilliant salmon color changing to old rose when fading | 10 | 50 |
| **Vesuvius.** Beautiful orange-scarlet flowers, very striking in beds or borders | 10 | 50 |
| **Laciniatus** (Single Fringed Pink). Flowers fringed in a great variety of colors | 10 | 35 |

## HARDY GARDEN PINKS

These form low, bushy, tufted plants, above which are produced on long stems the beautiful fringed and fragrant flowers so valued in "old-fashioned" gardens. For permanent beds and borders these Pinks are unrivaled.

| | Pkt. |
|---|---|
| **Barbatus** (Sweet William). See page 67. | |
| **Latifolius atrococcineus fl. pl.** Hardy perennial. A hybrid between the China Pink and Sweet William. The heads of brilliant red flowers are quite double. Will flower first season from seed | $0 25 |
| **Plumarius, Double Mixed.** Double fringed, fragrant flowers of white, crimson or purple shades, spotted and variegated. 12 inches high | 10 |
| **Plumarius, Single Mixed.** Large, single fragrant flowers of beautiful colors and finely fringed | 05 |
| **Scotch,** or **Florists' Pinks.** They are excellent perennial garden plants, about 1 foot high when in bloom; they are vigorous, very hardy, and flower profusely during spring and early summer; the flowers are very large, very double, beautifully fringed, and emit a grateful clover-like perfume. Mixed colors | 25 |

**S. & W. Co.'s Special Mixture of Annual Sorts.** A grand collection of these ever-popular garden, or China Pinks. All large-flowering varieties, unrivaled for brilliancy and rich variety of color, and bloom in perfect succession during the whole summer and autumn in such numbers as fairly to crowd each other for room. Mixed colors. Pkt. 10 cts., oz. $1.

**COLLECTION ANNUAL SORTS**

**Ten choice Dianthus, five named double and five named single, packet each, for 75 cts.**

DOUBLE ANNUAL PINKS

## DIGITALIS (Foxglove)

### HARDY PERENNIALS

Invaluable for the hardy border and particularly handsome when seen growing among shrubbery.

| | Pkt. | Oz. |
|---|---|---|
| **Gloxiniaeflora alba.** White | $0 05 | $0 40 |
| " **Lilacina.** Lilac | 05 | 40 |
| " **purpurea.** Purple | 05 | 40 |
| " **rosea.** Rose | 05 | 40 |
| " **lutea.** Yellow | 05 | 40 |
| " **Finest Mixed** | 05 | 40 |
| **Purpurea—** | | |
| **Alba.** White | 10 | 75 |
| **Rubra.** Red | 10 | 75 |
| **Rosea.** Pink | 10 | 75 |
| **Mixed** | 10 | 1 25 |
| **Monstrosa, mixed** | 10 | 1 25 |

**DRACAENA.** Ornamental greenhouse plants, with elegant leaves; rich and desirable.

**Indivisa lineata.** Pkt. 10 cts.

## ESCHSCHOLTZIA

### (California Poppy)

Profuse blooming annuals, for beds, edging or masses. Bloom from early summer until frost. Should be grown in every garden.

**Californica.** Giant yellow. Pkt. 5 cts., oz. 35 cts.

**Alba.** Creamy white. Pkt 5 cts., oz. 35 cts.

**Carminea.** Carmine. Pkt. 10 cts., oz. 75 cts.

**Golden West.** Deep yellow. Pkt. 10 cts., oz. 50 cts.

**Rose Queen.** Deep pink. Pkt. 10 cts., oz. 50 cts.

**Mandarin.** Inner side of petals rich orange, the outer side brilliant scarlet. Pkt. 10 cts., oz. 40 cts.

**Crocea.** Double; orange; very attractive. Pkt. 5 cts., oz. 35 cts.

**Carmine King.** Beautiful carmine-rose on both sides of petals, making a distinct and novel variety. Pkt. 10 cts., ¼oz. 50 cts.

**Dainty Queen.** Beautiful new shade of Eschscholtzia; pale coral-pink, slightly deeper toward the edges. Pkt. 10c., ¼oz. 75 cts.

## Echinocystis

**Lobata** (Wild Cucumber Vine). One of the quickest-growing annual vines we know of; splendid for covering trellises, old trees, fences, etc. Clean, bright green foliage and sprays of white flowers during July and August. Pkt. 5 cts., oz. 30 cts.

**ECHINOPS Ruthenicus** (Globe Thistle). Striking hardy perennial plants, with handsome, silvery, thistle-like foliage and fine steel-blue flowers in round heads, which can be used for cutting. Excellent for the back of the hardy border among other tall plants. 3 to 5 feet. Pkt. 10 cts.

**EUPATORIUM ageratoides** (Thoroughwort). Hardy perennial. 4 feet. White. August and September. Pkt. 10 cts.

**Cœlestinum.** Blue. September. Pkt. 10 cts.

**EUPHORBIA heterophylla** (Mexican Fire Plant). A handsome, annual, garden foliage plant. Leaves large and glossy green, often tipped with orange-scarlet. Pkt. 10 cts.

**Variegata** (Snow-on-the-Mountain). Attractive foliage veined and margined green and white. Pkt. 5 cts., oz. 30 cts.

**ERYNGIUM amethystinum** (Sea Holly). Handsome, ornamental hardy plants, growing 2 to 3 feet high, with finely cut, spiny foliage and beautiful, thistle-like heads of amethystine blue; fine for winter bouquets. Pkt. 15 cts.

**FEVERFEW.** See **Matricaria.**

**FUCHSIA.** Choice double and single of this well-known, elegant tender pot-plant. Mixed colors. Pkt. 25 cts.

ESCHSCHOLTZIA, or CALIFORNIA POPPY

**GAURA Lindheimeri.** Half-hardy perennial. Flowers the first season from seed, and produces long sprays of white, red-tinted flowers. It is most useful for vases, the slender-stemmed blossoms fluttering like butterflies. 2 ft. Pkt. 5 cts., oz. 40 cts.

FORGET-ME-NOT (MYOSOTIS)

## Forget-me-not

### (Myosotis)

All the varieties of these popular plants are very beautiful and general favorites with all; they succeed best in a moist situation. Half-hardy perennial. 1½ feet.

**Alpestris.** A pretty trailer with blue flowers. Pkt. 5 cts., oz. 60 cts.

**Alpestris, Eliza Fonrobert.** Sky-blue. Pkt. 10 cts., oz. $1.

**Alpestris, Victoria.** Dwarf habit; sky-blue. Pkt. 25 cts., oz. $1.50.

**Oblongata perfecta.** Flowers borne in long spikes; very suitable for winter blooming. Pkt. 10 cts., oz. $1.25.

**Palustris** (True Forget-me-not). Pkt. 10 cts., oz. $3.

**Palustris semperflorens.** Continuous bloomer. Pkt. 10 cts., oz. $2.50.

**Finest Mixed.** Pkt. 5 cts.

**Ruth Fischer.** The latest and said to be the finest and largest-flowered Forget-me-not yet sent out, producing flowers up to ½ inch in diameter, of true Forget-me-not-blue; plants of strong, vigorous growth, of exceptional value for pot culture and spring bedding. Pkt. 25 cts.

**FOUR O'CLOCKS** (Mirabilis). Well-known, free-flowering plants. Called Four o'Clocks because they open their blossoms at that hour in the afternoon; also called Marvel of Peru. Hardy annuals. 2 feet.

**Fine Mixed.** Pkt. 5 cts., oz. 20c.

**GEUM atrosanguineum fl. pl.** Beautiful hardy perennial, bearing profusely large, showy, double, dark crimson flowers all through the summer; an elegant flower for bouquets. Pkt. 10c.

## GLOXINIA

### (Large-flowered, Striped and Marbled)

These very remarkable Gloxinias have, by careful selection, now been so far fixed that 40 per cent of the seedlings come true. The ground-color of the large, erect and widely opened flowers is a velvety purple-crimson, with a rosy white throat. On the often seven-lobed corolla appear more or less sharply defined bands, spots and stripes, characteristic of this new class, the latter mostly of a violet hue. Pkt. 50 cts.

**GNAPHALIUM leontopodium** (Edelweiss). Seed should be sown early and kept cool and moist. Pkt. 25 cts.

**GERBERA Jamesoni** (For full description of this beautiful cut-flower see page 4.)

**GLOBE AMARANTH** (Gomphrena). See **Everlasting Flowers,** page 71.

## GAILLARDIA

### (Blanket Flower)

Brilliant, showy annuals and perennials, used very extensively for beds, borders and cutting purposes. The flowers are daisy-like and are borne on long, stiff stems.

### S. & W. Co.'s Hybrids.

This strain of hybrid Gaillardia has been obtained from a specialist who has developed a splendid type, covering only the best varieties; the flowers are as large as sunflowers. Pkt. 25 cts., 5 pkts. $1.

### ANNUAL VARIETIES

**Amblyodon.** Rich blood-red. 2 ft. Pkt. 5 cts., oz. 40 cts.

**Aurea.** Rich yellow. 2 feet. Pkt. 10c.

**Picta Lorenziana.** Double; mixed. 2 ft. Pkt. 5 cts., oz. 40 cts.

**Rubra.** Rich red; double. 2 feet. Pkt. 5 cts., oz. 40 cts.

### PERENNIAL VARIETIES

**Kermesina splendens.** Center rich crimson, narrow canary-yellow border. Pkt. 15 cts.

**Grandiflora maxima.** Pkt. 10 cts.

**Sulphurea oculata.** Pale sulphur, bright maroon eye. Pkt. 15 cts.

GAILLARDIA LORENZIANA

## GYPSOPHILA

### (Baby's Breath)

Pretty, free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut-flowers.

**Elegans grandiflora alba.** This is an improved, large-flowering, pure white form of the annual Baby's Breath; of free, easy growth, and grown by the acre in the suburbs of Paris and London for use with other cut-flowers. Several sowings should be made during the season to keep up a supply. Pkt. 5 cts., oz. 50 cts.

**Elegans grandiflora rosea.** Delicate rose. Pkt. 5 cts., oz. 50 cts.

**Muralis.** An annual sort which forms mounds of green 8 to 10 inches high, thickly studded with little pink flowers from early in the season till frost; fine for edging. Pkt. 5 cts., oz. 50 cts.

**Paniculata.** White flowers; fine for bouquets; one of the favorite hardy perennials; blooms first year if sown early. 2 feet. Pkt. 5 cts., oz. 50 cts.

**Paniculata fl. pl.** The new double-flowering Baby's Breath, and one of the finest hardy plants for cutting. Pkt. 20 cts., 3 pkts. 50 cts.

**Acutifolia.** A strong-growing hardy perennial sort, 3 to 4 feet high, with large panicles of small white flowers in July. Pkt. 5 cts., oz. 50 cts.

**Repens.** Dwarf; white. A hardy perennial sort for rockwork. Pkt. 5 cts., oz. 50 cts.

## GODETIA

Profuse-blooming annuals of beautiful colors; fine for bedding or pot culture. Hardy annuals. 1 foot.

| | Pkt. |
|---|---|
| **Lady Satin Rose.** Brilliant carmine; extra fine | $0 05 |
| **Duchess of Albany.** Satiny white | 05 |
| **Princess of Wales.** Beautiful pink | 05 |
| **Sunset.** Dwarf; compact; most dazzling rosy crimson | 10 |

**Carter's Double Pink.** Beautiful pot-plant for conservatory decoration. Height 2 ft. Pkt. 15c.

**Finest Semi-Dwarf Mixed.** Pkt. 10 cts.

## GOURDS

A vigorous class of plants, with curiously formed and often strangely colored fruits. The foliage is abundant and often curious.

| | Pkt. |
|---|---|
| **Mock Orange** | $0 05 |
| **Apple-shaped** | 05 |
| **Dish-Cloth,** or **Chinese Luffa** | 05 |
| **Dipper** | 05 |
| **Hercules' Club** | 05 |
| **Mixed.** All sorts | 05 |

**GREVILLEA robusta** (Silk Oak). Very graceful foliage; highly valued as a decorative plant for the table, and when large, for tropical effects. 3 to 5 feet. Pkt. 10 cts.

## HELENIUM

### (Sneezewort)

Hardy perennial; blooms in late summer; useful in the hardy border; very free-blooming.

**Autumnale.** 6 feet. Yellow. Pkt. 10 cts., ¼oz. 50 cts.

**Bigelowii.** 5 feet. Golden yellow, black center. Pkt. 25 cts.

**Hoopesii.** 2½ feet. Dark yellow. Pkt. 25 cts.

## HELIANTHUS (Sunflower)

Much-prized annuals and perennials for cutting; the tall sorts are largely used in the perennial border; the dwarf sorts make good edging to the tall.

GYPSOPHILA ELEGANS GRANDIFLORA. WHITE

### SINGLE ANNUAL SUNFLOWERS

The single sorts of Sunflowers are indispensable for cutting. Sown in a sunny location in April or early May, they come to bloom early in the summer and flower continuously until cut down by frost.

**Cut-and-Come-Again, Mixed.** A mixture of the tall-growing, large-flowering types for cutting. Pkt. 10 cts., oz. $1.

**Cucumerifolius** (Miniature Sunflower). Small, single, rich yellow flowers; an abundant bloomer. 4 feet. Pkt. 5 cts., oz. 50 cts.

**Cucumerifolius, Stella.** Different from the above by its larger and better-formed flowers of purest golden yellow with black center. Pkt. 10 cts., oz. 75 cts.

**Cucumerifolius, Orion.** A new variety of the Stella. The petals are twisted like a cactus dahlia. Pkt. 10 cts., oz. 75 cts.

**Cucumerifolius, Perkeo.** A charming dwarf variety of the Miniature Sunflower. The plants form compact bushes about 12 inches high by 14 inches through. There are many positions, such as the front of borders or beds of plants of medium height, where this can be used to good advantage, flowering as it does from the end of June until cut down by hard frost. Pkt. 10 cts., oz. $1.

## Double Annual Sunflowers

**Cucumerifolius fl. pl.** The double-flowering form of the popular Miniature Sunflower. The flowers, while double, are quite free and graceful; of a bright golden yellow. Pkt. 10 cts., oz. $1.50.

**Dwarf Double** (Globe of Gold). Dwarf; double; yellow. 4 feet. Pkt. 5 cts., oz. 25 cts.

**Globosus fistulosus** (Globe or Dahlia Sunflower). Flowers large, double and of a rich saffron. 6 feet. Pkt. 5 cts., oz. 25 cts.

**Multiflorus fl. pl.** Splendid; double; golden yellow. 6 feet. Pkt. 10 cts., oz. 50 cts.

**Gigantic Russian.** The large-flowering Russian variety. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., ½lb. 40 cts., lb. 75 cts.

### HARDY SUNFLOWERS

**Missouricus.** Fine; double; yellow. Pkt. 10 cts., oz. $1.
**Rigidus.** Heavy, stiff stems; clear yellow flowers. Pkt. 25 cts.

**HELICHRYSUM** (Straw Flower). See **Everlastings,** page 71.

## Heliopsis

**Pitcheriana** (Orange Sunflower). Hardy perennial. A valuable plant for the border, thriving in any good soil. Flowers cup-shaped, deep yellow, on long, stiff stems for cutting. 3 to 4 feet. June to October. Pkt. 10 cts., oz. 75 cts.

## HELIOTROPE

A half-hardy perennial, flowering during the whole season; its delightful perfume makes it a most desirable bouquet flower; a splendid bedding plant, or can be trained as a greenhouse climber. Seed started indoors in the spring will make fine plants for summer blooming. Can also be sown outdoors in May.

**Lemoine's Giant.** Of robust growth and produces heads of flowers double the size of the old sorts; mixed colors. Pkt. 10 cts., ⅛oz. 50 cts.

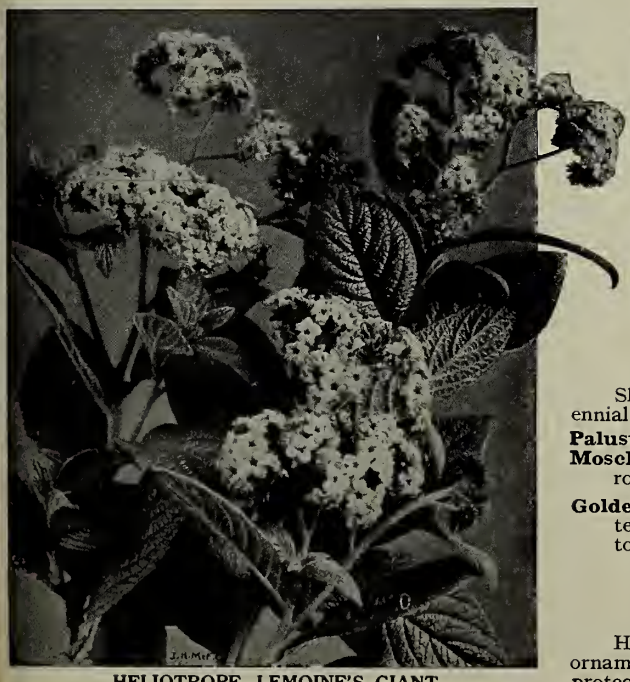
**Queen Marguerite.** Large; dark blue. Pkt. 15 cts., ⅛oz. 75 cts.

**White Lady.** Largest white. Pkt. 10 cts., ⅛oz. 50 cts.

**Mixed.** All colors of the regular type. Pkt. 5 cts., ⅛oz. 25 cts.

**Do not fail to grow the King Asters listed on page 2 of our Catalogue. For refinement of petalage and profuseness of bloom they are Kings.**

SUNFLOWERS



HELIOTROPE, LEMOINE'S GIANT

**In all our stocks of Flower Seeds great care is exercized to have everything of absolutely first-class quality.**

## Heuchera

**Sanguinea** (Alum Root). Beautiful hardy perennial. The foliage is evergreen; flowers fiery coral-red shading to brilliant crimson. Pkt. 25 cts., ⅛oz. 75 cts.

**Splendens.** Deep red. Pkt. 25 cts., ⅛oz. 75 cts.

## HIBISCUS (Marshmallow)

Showy, ornamental plants, for mixed beds or shrubbery borders. Hardy perennial, but will bloom first year from seed if sown early.

| | Pkt. |
|---|---|
| **Palustris.** Large pink flowers | $0 05 |
| **Moscheutos** (Swamp Rose Mallow). Flowers 6 inches in diameter; of light rosy red, with dark center | 05 |
| **Golden Bowl.** Giant yellow, cup-shaped flowers, from 6 to 9 inches in diameter; of rich cream, with velvety maroon center. The plants commence to bloom early and continue until cut down by frost | 10 |

## Honesty (Moonwort)

Hardy biennial, admired for its silvery seed-pouches, which are used for house ornaments; beautiful and curious purple flowers. Sow seed in open in May and protect over winter. 2 feet. Pkt. 5 cts., ¼oz. 15 cts.

CHATER'S SUPERB DOUBLE HOLLYHOCKS

# HOLLYHOCKS

One of the most popular of hardy garden plants. The beautiful color effects produced by the planting of these flowers, combined with their dignified and stately appearance, render them indispensable for either the old-fashioned garden or the well-planned herbaceous border. As a background for other flowers or planting among shrubbery they are without an equal. As the plants are affected with rust occasionally, we recommend frequent spraying in springtime with bordeaux mixture.

## CHATER'S SUPERB DOUBLE

By special arrangement, we have secured seed from a grower in England who has, at great expense and effort, grown seed of the famous Chater's Hollyhock on the ground where the **Original strain** was first grown, and we can offer the true strain in the following colors:

| | | |
|---|---|---|
| **Cerise** | **Crimson** | **Flesh-color** |
| **Lilac** | **Pink** | **Primrose** |
| **Scarlet** | **White** | **Yellow** |

**Pkt. 25 cts., 5 pkts. $1.**

**Superb Double, Mixed.** Pkt. 10 cts., ⅛oz. 25 cts.
**Allegheny, Mixed.** Pkt. 10 cts., ⅛oz. 25 cts.

## CHATER'S SUPERB SINGLE

Many prefer the single-flowering Hollyhocks, and we have arranged to procure the same well-known strain in the following single varieties:

| | | |
|---|---|---|
| **Pink** | **Purple** | **Primrose** |
| **Scarlet** | **White** | **Yellow** |

**Pkt. 25 cts., 5 pkts. $1.**

**Chater's Finest Single, Mixed.** Pkt. 20 cts., 6 pkts. $1.

## S. & W. Co.'s New Annual Everblooming Hollyhocks

This is one of the best introductions of late years. Seeds sown in the house in March will produce flowers in July on plants 4 feet high. The plants do not attain their perfection until their second year, when they grow 7 to 10 feet high and flower continuously from June till frost. The foliage is distinct and not subject to any disease. The plants are perfectly hardy and will live longer than the old-fashioned kind.

| | Pkt. |
|---|---|
| **Single Mixed** | $0 15 |
| **Double Mixed** | 25 |

## HUMULUS (Japan Hop)

Rapid summer climber, in three or four weeks' time attaining a height of 20 to 30 feet, resembling the common Hop, but, being an annual, attains full perfection the first season. The foliage is luxuriant, making a dense covering. It is one of the best plants for covering verandas, trellises, etc., producing grateful shade and being very ornamental. Heat, drought and insects do not trouble it.

| | Pkt. | ¼oz. | ½oz. | Oz. |
|---|---|---|---|---|
| **Japonicus** | $0 05 | $0 20 | $0 30 | $0 50 |
| **Variegatus.** Variegated variety | 10 | 50 | 75 | 1 25 |

HUMULUS (JAPAN HOP)

## HUNNEMANNIA

### (Giant Yellow Tulip Poppy, or Bush Eschscholtzia)

**Fumariæfolia.** This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup-yellow, Poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. Pkt. 10 cts., ½oz. 60 cts., oz. $1.

**HYACINTH BEAN.** See **Dolichos.**

**IBERIS** (Hardy Candytuft). See **Candytuft.**

**ICE PLANT** (Mesembryanthemum). Very singular, dwarf, trailing plants, much used for garnishing; beautiful and curious. Tender annual. 1 foot.
**Crystallinum.** White. Pkt. 5 cts.

## IMPATIENS

**Sultani.** One of the most beautiful of decorative plants. It thrives in stove heat, greenhouse and in open border during the summer. The flowers are of a brilliant rosy scarlet, 1½ inches in diameter. Mixed. Pkt. 10 cts.

**Impatiens Holstii.** A very handsome plant from East Africa, forming bushes 1½ to 2 feet in height, with brilliant scarlet flowers, which measure from 1¼ to 1½ inches across. It is an elegant pot-plant, also valuable for bedding out in partial shade. Pkt. 25 cts.

**INCARVILLEA Delavayi.** Hardy perennial. Rather new, originated in northern China, and is one of the prettiest perennials known. It produces divided pale green leaves about 2 feet in length, much like acanthus. The flowers are borne on long, stout stems, tube-shaped, and appear almost like gloxinias. Color bright rose. 2½ feet. June to August. Pkt. 50 cts.

## IPOMŒA

Climbers of rapid growth, with beautiful and varied flowers. For covering walls, trellises, arbors or stumps of trees they are invaluable. It is well to soak the seed in warm water over night to assist in germination.

| | Pkt. | Oz. |
|---|---|---|
| **Bona Nox** (Evening-Glory). Rosy lilac flowers, expanded in the evening; of very rapid growth | $0 10 | $0 75 |
| **Grandiflora Mexicana alba** (Moonflower). At night and during dull days the plants are covered with an abundance of large, pure white, fragrant flowers, 5 to 6 inches in diameter. It grows rapidly and will cover a large surface | 10 | 75 |
| **Hederacea grandiflora superba.** Sky-blue, margined white | 10 | 75 |
| **Hederacea grandiflora superba alba.** White | 10 | 75 |
| **Leari.** Dark blue | 10 | 1 50 |
| **Setosa** (Brazilian Morning-Glory). Flowers of pleasing rose-color, borne very freely, in large clusters, from August to frost. As a quick-growing vine it has no equal, covering an enormous space in a short time | 05 | 40 |

**For other varieties of Ipomœas, see Cypress Vine and Convolvulus.**

## Kochia

**(Summer Cypress, or Mexican Firebush)**

**Trichophylla.** A pretty half-hardy annual, 2 to 3 feet in height, which grows into a perfect pyramidal-shaped cypress bush, with small feathery light green foliage, deepening as the season advances until it becomes a lovely crimson hue about September. Excellent for edging or hedging. Pkt. 15c., ¼oz. $1.

**KENILWORTH IVY** (*Linaria Cymbalaria*). Perennial. Violet flowers; of trailing habit. Pkt. 5 cts.

**KUDZU VINE.** See **Pueraria.**

**LANTANA.** Rapid-growing plants, forming small bushy shrubs; exceedingly free in bloom. Mixed. Pkt. 5c.

**LAVENDULA** (Sweet Lavender). Pkt. 10 cts., oz. 50 cts.

**LAVATERA splendens rosea** (Pink Mallow). A very pretty hardy annual of exceptional value. Plants are well formed and grow about 3 feet high; the flowers being large and exceptionally valuable for cutting, as they last quite long. Do well also in large beds or borders and are extremely showy. Pkt. 5 cts., oz. 50c.

**Arborea variegata.** Leaves mottled with yellow; very decorative. Pkt. 5 cts., oz. 25 cts.

**Trimestris.** Red. Pkt. 5 cts., oz. 50c.

**LINUM** (Flax)—

**Grandiflorum rubrum** (Verum). Hardy annual; very large-flowered. Pkt. 5 cts., oz. 25 cts.

**Lewisii.** Blue. Pkt. 10 cts., oz. 35 cts.

**Perenne** (Perennial Flax). Blue. August-flowering. Pkt. 5c., oz. 25c.

**Luteum.** Bright yellow. Pkt. 10 cts., oz. 35 cts.

**LATHYRUS latifolius** (Hardy Everlasting Pea). Hardy climbers, growing 6 to 8 feet high when trained on a trellis; the flowers are borne in large clusters. They are peculiarly adapted to rough places, to scramble over rocks and bushes; splendid cut-flower.

**White.** Pkt. 10 cts.

**Delicata.** Rosy flesh-color. Pkt. 10c.

**Red.** Pkt. 5 cts.

**Mixed Colors.** Pkt. 5 cts.

LARKSPUR, DOUBLE STOCK-FLOWERED

## ANNUAL LARKSPURS

These are among the best-known garden flowers, and in recent years a vast improvement has been effected by careful selection in size and color of the blossoms and the general habit of the plant. Seeds sown in the open ground before the close of April will produce flowering plants by the beginning of July, and give a continuous succession of flowers from then until frost, a record that is not surpassed by any other annual. They make handsome beds or lines, and their free, graceful habit and bright colors are very effective when interspersed in the old-fashioned flower or shrubbery border. They stand well when cut, and a vase of one or mixed colors is indeed charming.

### DOUBLE STOCK-FLOWERED

This is the finest variety of this very popular annual, with beautiful double flowers. Height 2½ to 3 feet.

**Snowstorm.** Pure white.
**Stella.** Sky-blue.
**Loveliness.** Shell-pink.
**Attraction.** Bright rose.
**King of the Blues.** Dark blue.
**Violet Queen.** Violet.
**Lilac Perfection.** Lilac.
**Tricolor.** Variegated.

**Pkt. 10 cts., ½oz. 35 cts., oz. 60 cts.**

**COLLECTION:**
**One pkt. each of 8 varieties, 50 cts.**

**Defiance.** A decided improvement over the Newport Scarlet. This Larkspur is of the same habit as our Double Stock-flowered; the plants, however, are a trifle taller in growth. Pkt. 25 cts., oz. $1.50.

**Tall Stock-flowered, Mixed.** A select mixture of our famous Stock-flowered strain. Pkt. 5 cts., oz. 50 cts.

**Dwarf Stock-flowered, Mixed.** Finest double flowers. Mixed. 1½ to 2 feet Pkt. 5 cts., oz. 50 cts.

### S. & W. Co.'s Emperor

This grand type of Annual Larkspurs grows about 2 feet high and is of candelabra habit. When planted in borders of the flower-garden the plants will prove most effective.

| | |
|---|---|
| **Apple-Blossom** | **White, Striped** |
| **Brilliant Rose** | **Dark Red** |
| **Black-Blue** | **Rose** |
| **Azure-Blue** | **Tricolor** |
| **Violet** | **Light Blue** |

**Each of above, pkt. 5 cts., oz. 25 cts.**
**Collection of the 10 varieties, 40c.**

## Lychnis

**Chalcedonica.** Usually grown as annuals; of dwarf bushy habit, bearing flowers an inch or more across in continuous succession until frost; the color is a particularly pleasing and effective rich scarlet.

| | Pkt. | Oz. |
|---|---|---|
| 1 foot | $0 10 | |
| 2½ ft. | 10 | $0 50 |
| **Lagascæ.** Rose; dwarfest; early; charming for pots. | 25 | |
| **Haageana.** Fiery scarlet | 10 | 50 |
| **Sieboldii.** White | 10 | 30 |
| **Viscaria rosea** | 10 | 40 |
| **Viscaria splendens** | 10 | 40 |

Giant Double-Flowering Zinnia
(See page 70)
A splendid companion to our Giant Orange and Lemon Marigolds offered on page 57.

# LOBELIA

## COMPACTA VARIETIES

Little, round, compact plants, 4 to 6 inches high, forming little mounds of bloom, splendid for edging, beds and ribbon-gardening and fine for pots.

| | Pkt. | ¼oz. |
|---|---|---|
| **Emperor William.** Light blue; compact; very fine | $0 10 | $1 00 |
| **Pumila splendens.** Dark blue, with clear white eye | 10 | 1 50 |
| **Pumila alba.** Pure white | 10 | 1 50 |
| **Pumila.** Magenta-red, with white eye; distinct and fine | 10 | 1 50 |
| **Crystal Palace compacta.** Dark blue; a popular bedder | 10 | 2 00 |

## ERINUS VARIETIES

They produce trailing branches, 6 to 9 inches long. Indispensable for hanging over vases and baskets, or for garden beds, bearing continuously flowers of charming blue, white or rose shades.

| | Pkt. | ¼oz. |
|---|---|---|
| **Speciosa.** Dark blue; dark foliage; extra fine | $0 05 | $1 00 |
| **Barnard's Perpetual.** Deep blue, with white eye | 10 | 1 00 |
| **Lindleyana.** Rose | 10 | 75 |
| **Prima Donna.** Velvety maroon | 10 | 75 |
| **Alba.** Pure white | 10 | 50 |

## HARDY VARIETIES

Tall-growing, hardy perennials with long spikes of brilliant flowers; for permanent beds and borders they are unrivaled. They are one of the few flowering plants that thrive in shady situations. 2 to 4 feet. The most brilliant plants in cultivation.

| | Pkt. | ⅛oz. |
|---|---|---|
| **Cardinalis** (Cardinal Flower). Long spikes of intense scarlet flowers | $0 25 | $1 50 |

**Cardinalis Lugdunensis.** Rose. Pkt. 50 cts.

**Queen Victoria.** Brilliant scarlet. Pkt. 50 cts.

**MALVA Alcea** (Hollyhock Mallow). Pink. Pkt. 5 cts., oz. 50 cts.

**Moschata.** Pkt. 10 cts., oz. $1.

**Moschata fl. alba.** Pkt. 10 cts., oz. $1.

**MATTHIOLA bicornis** (Evening-scented Stock). This old-fashioned annual has no beauty to recommend it, the flowers being a dull purplish lilac, but it is well worth growing for the entrancing fragrance which it emits during the evening. 1 ft. Pkt. 5c., ¼oz. 15c.

# MATRICARIA

**Grandiflora fl. pl. eximia** (Feverfew). Double, pure white flowers are borne on slender stems 15 inches high, which are excellent for cutting. Half-hardy perennial, which should be treated as an annual. Pkt. 10 cts., oz. 75 cts.

**Golden Ball.** Compact-growing variety with golden yellow flowers. Excellent for bedding. 1 foot. Pkt. 25 cts., oz. $2.50.

**MUSK PLANT.** See **Mimulus.**

**MYOSOTIS.** See **Forget-me-not.**

**MAURANDIA, Finest Mixed.** Elegant greenhouse perennial climbers, producing the first season innumerable tube-shaped flowers. Excellent for hanging-baskets and vases. July to October. Pkt. 10 cts., ¼oz. 75 cts.

**Albiflora.** White. Pkt. 25 cts., ⅛oz. $1.

**Barclayana.** Purple. Pkt. 10 cts., ¼oz. $1.

**MESEMBRYANTHEMUM crystallinum.** See **Ice Plant.**

**MONARDA didyma** (Bee Balm). July to September. Crimson. Pkt. 25 cts.

# LUPINUS (Lupine)

This is a very interesting class of plants and of easy culture, producing beautiful leaves and pea-shaped flowers, and should be more generally cultivated. The following annual varieties may be sown out in the open in May and as plants grow thin out, leaving about 12 inches between the plants.

## ANNUAL VARIETIES

| | | |
|---|---|---|
| **Rich Blue** | **Sky-Blue** | **White** |
| **Rose** | **Red** | **Yellow** |

**Pkt. 5 cts., oz. 30 cts.**

**S. & W. Co.'s Finest Mixture.** A splendid mixture of the Annual Lupines for cutting. Pkt. 5 cts., oz. 25 cts.

## PERENNIAL VARIETIES

| | Pkt. | Oz. |
|---|---|---|
| **Polyphyllus, White** | $0 10 | $0 50 |
| " **Blue** | 10 | 50 |
| " **Mixed** | 10 | 40 |

**Lupinus polyphyllus roseus.** The plants of this beautiful half-hardy perennial are of robust, branching habit. An excellent subject for the herbaceous border; flowers being produced in long spikes of soft rose-pink. Pkt. 10 cts., ¼oz. 25 cts., oz. 75 cts.

**Lupinus polyphyllus, Excelsior.** This fine strain of perennial Lupines will be found a grand addition to the hardy perennial section, embracing, as it does, a splendid assortment of colors, ranging from very pale to deep rose, and various shades of lavender, mauve and blues. A really fine mixture. Pkt. 15 cts., 2 pkts. 25 cts.

LUPINUS POLYPHYLLUS ROSEUS

**MOONFLOWER.** See **Ipomoea.**

**MORNING-GLORY.** See **Convolvulus.**

**MUSA Ensete** (Abyssinian Banana Tree). A foliage plant of magnificent proportions; for subtropical massing, or as single specimens it is strikingly effective. Seeds sown early in the house will produce plants 10 to 15 feet high the first season. Pkt. 25 cts.

**MIMOSA pudica** (Sensitive Plant). A very curious plant. The leaves instantly close up when touched. Tender annual. Pkt. 5 cts.

**MIMULUS.** The plants of Mimulus are beautiful and tender-looking, with almost transparent branches. They luxuriate in damp, shady situations; musk-scented. Tender annual. 1 foot.

**Moschatus** (Musk Plant). Pkt. 10 cts.

**Splendid Mixed.** Pkt. 5 cts.

# MOMORDICA

## (Balsam Apple and Balsam Pear)

Luxuriant annual climbers, with large leaves, making dense shade. The flowers are followed by ornamental, large fruits of orange or copper color, which burst and expose an interior of red, which is highly effective. 15 to 20 feet.

**Balsamina** (Balsam Apple). Orange fruits. Pkt. 5 cts., oz. 30 cts.

**Charantia** (Balsam Pear). Coppery scarlet fruits. Pkt. 5 cts., oz. 30 cts.

Our stocks of Dahlias and Gladioli have been selected from the finest varieties in commerce.

# MARIGOLD

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective. The former have uniformly large, yellow or orange-colored flowers, and are well adapted for large beds or mixed borders, the latter are dwarfer in growth, with beautifully striped flowers, and better suited for bedding purposes and for pot culture; they succeed best in a light soil, with full exposure to the sun. A vase or bowl of any of the rich yellow sorts in combination with a few blue larkspurs or cornflowers is very striking.

## TALL AFRICAN MARIGOLDS

Few plants have to their credit the mass of glorious color such as is furnished by Marigolds and zinnias in the garden. Their season of bloom during the summer until fall strongly suggests their use. Seed of this type should be sown outdoors in May and transplanted, leaving at least 18 inches each way between the plants, as they are robust growers and can attain their maximum development only if given plenty of growing room.

**Giant Show Lemon.** This highly meritorious strain of the African Marigold is grown specially for us by a specialist in Europe who selects only the finest blooms and plants of unusually good constitution for seeding purposes. Height 2½ feet. Pkt. 25 cts., 5 pkts. $1.

**Giant Show Orange.** The darker form of the preceding variety. Height 2½ feet. Pkt. 25 cts., 5 pkts. $1.

| | Pkt. | Oz. |
|---|---|---|
| **Double Mixed** | $0 05 | $0 50 |
| **Orange-Yellow** | 05 | 50 |

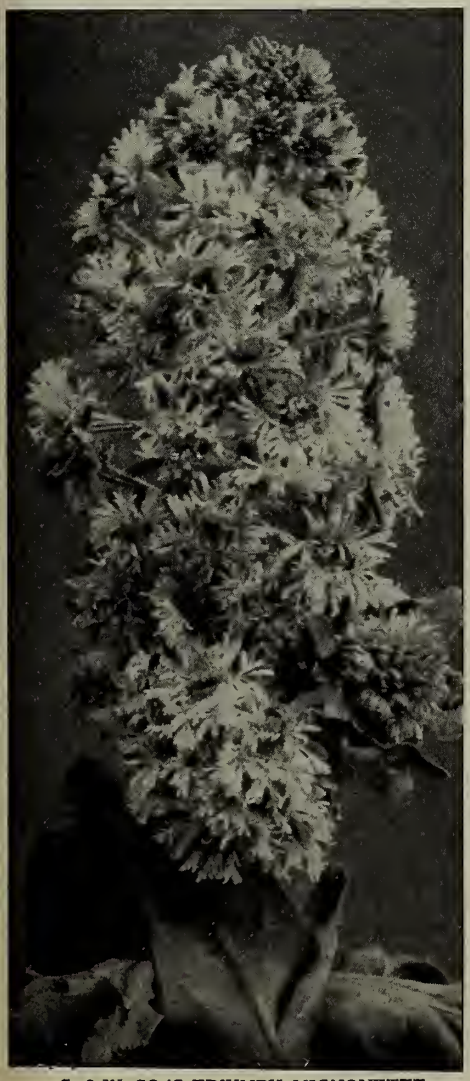
MARIGOLD, GIANT SHOW ORANGE

**Light Yellow.** Pkt. 5 cts., oz. 50 cts.

**Orange Quilled.** Pkt. 5 cts., oz. 40 cts.

**Lemon Quilled.** Deep lemon flowers daintily quilled. Pkt. 5 cts., oz. 50 cts.

**Eldorado.** Flowers very large, imbricated and extremely double, colors in all shades of yellow. Pkt. 5 cts., ¼oz. 25 cts.



S. & W. CO.'S TRIUMPH MIGNONETTE

## DWARF FRENCH MARIGOLDS

These differ from the Tall African, having small, flat flowers of a somewhat velvety sheen, and grow to a height of 12 to 15 inches.

| | Pkt. | Oz. |
|---|---|---|
| **Legion of Honor.** Dwarf, compact, with dark green, fern-like leaves and bright golden, star-like flowers distributed over the surface; the center of each petal is marked broadly with velvety crimson-brown | $0 10 | $0 50 |
| **Little Brownie.** Charming, forming compact little bushes only 5 to 6 inches high. It is remarkable for blossoming extremely early and in prodigious abundance, commencing in June. The flowers are vividly colored golden yellow, marked with a large spot of velvety crimson | 05 | 40 |
| **Lutea.** Pure yellow; very double | 05 | 35 |
| **Silver King** | 10 | 50 |
| **Dwarf Mixed** | 05 | 40 |

# MIGNONETTE (Reseda)

Well-known, sweet-scented little plants, everywhere at home, either in the greenhouse, garden or sitting-room. Hardy annual.

**S. & W. Co.'s Triumph.** This Mignonette is one of the choicest varieties for winter forcing. In type similar to Allen's Defiance, except that spikes are more compact and the individual florets are much larger in size. Seed of this grand variety is grown in our greenhouses, and is saved from the best spikes. Pkt. 50 cts.

**Allen's Defiance.** This gorgeous Mignonette has qualities heretofore unknown in large-flowering varieties, being deliciously fragrant. When grown under favorable conditions and with proper care, its spikes will be from 12 to 15 inches long. The individual florets are of remarkable size and stand out boldly, forming a graceful as well as compact spike. Its remarkable strength is accompanied by extraordinary keeping qualities; the spikes have been kept in a vase three weeks after cutting, retaining their grace and fragrance until every bud opened. Pkt. 10 cts., oz. $2.

**Improved Large-flowering.** Pkt. 5 cts., oz. 25 cts.

**Golden Queen.** Yellow-tinted flowers. Pkt. 10 cts., oz. 50 cts.

**Miles' Spiral.** Very fine. Pkt. 5 cts., oz. 60 cts.

**Machet.** A dwarf French variety, with broad spikes of very fragant red flowers; one of the best varieties for either garden or pot culture. Pkt. 10 cts., oz. $1.

**Machet, Ruby.** A fine new Machet Mignonette, with coppery scarlet flowers. Pkt. 10 cts., oz. $2.

**Machet, Bismarck.** A new imported variety. Pkt. 10 cts.

**Odorata maxima, Goliath.** Bears very large flowers, the center spikes being often 8 inches long. The plant grows in candelabra form and produces fiery red flowers on firm, upright stalks. Pkt. 10 cts., oz. $2.

**Parsons' White.** Nearly white. Pkt. 5 cts., oz. 75 cts.

S. & W. CO.'S SUPERLATIVE NASTURTIUMS

# Stumpp & Walter Co.'s Superlative Nasturtiums

## TOM THUMB VARIETIES

The dwarf Nasturtiums will always be general favorites, for the reason that they stand any amount of heat and drought, growing vigorously and flowering freely, especially in a poor, rocky soil.

| | Pkt. | Oz. |
|---|---|---|
| **Aurora.** Salmon-rose | $0 05 | $0 15 |
| **Beauty.** Light scarlet, splashed canary | 05 | 15 |
| **Brilliant.** Rich scarlet | 05 | 15 |
| **Chameleon.** Splashed crimson, bronze and yellow | 05 | 20 |
| **Crystal Palace Gem.** Sulphur, spotted maroon | 05 | 15 |
| **Empress of India.** Brilliant crimson; dark foliage | 05 | 20 |
| **King Theodore.** Scarlet-maroon; dark foliage | 05 | 15 |
| **King of Tom Thumb.** Crimson | 05 | 15 |
| **Lady Bird.** Orange-yellow; red spots | 05 | 15 |
| **Luteum.** Light yellow; no blotches | 05 | 15 |
| **Pearl.** Pure white | 05 | 15 |
| **Crimson** | 05 | 15 |
| **RUBY KING.** Light ruby-red | 05 | 15 |
| **Mixed.** Finest variety | lb. $1. 05 | 15 |
| **Imported Collection.** 1 pkt. each of 12 of these varieties | $0 50 | |
| 1 pkt. each of 6 of these varieties | 25 | |

## TALL, or CLIMBING VARIETIES

Beautiful and luxuriant annual climbers for trellises, arbors or vases, bearing their gorgeous flowers in profusion until killed by frost.

| | Pkt. | Oz. |
|---|---|---|
| **Chameleon.** Splashed crimson, bronze and yellow | $0 05 | $0 20 |
| **Dunnett's Orange.** Rich, golden orange, garnet blotches | 05 | 15 |
| **Yellow** | 05 | 15 |
| **King Theodore.** Velvety dark crimson; dark foliage | 05 | 15 |
| **Pearl.** Cream-white | 05 | 15 |
| **Prinz Heinrich.** New, cream-color, spotted red | 05 | 15 |
| **Schulzi.** Scarlet | 05 | 15 |
| **Von Moltke.** Bluish rose | 05 | 15 |
| **Dark Crimson** | 05 | 15 |
| **Sunlight** | 4 ozs. 75c | 10 25 |
| **Moonlight** | 4 ozs. 75c | 10 25 |
| **Jupiter** | 4 ozs. $1.20 | 10 35 |
| **California Giants Mixed** | 4 ozs. 75c | 10 25 |
| **Finest Tall Mixed** | 4 ozs. 25c | 05 10 |
| **Imported Collection.** 6 varieties | | $0 25 |
| 12 varieties | | 50 |

# Variegated-Leaved Nasturtiums

This new type of Nasturtiums, which came prominently before our attention this past season, has proven to be a very valuable addition to the list. The beautiful coloring of the flowers, interspersed with the silver-variegated leaves, renders a very pleasing contrast; particularly when used for covering arches and trellises, or massed among rockeries on terraces, the effect produced is very striking.

## VARIEGATED-LEAVED DWARF QUEEN

| | Pkt. | Oz. |
|---|---|---|
| **Queen of Tom Thumb, Crimson** | $0 10 | $0 50 |
| " " " **Scarlet** | 10 | 50 |
| " " " **Yellow Spotted** | 10 | 50 |
| " " " **Rosy Scarlet** | 10 | 50 |
| " " " **Primrose** | 10 | 50 |
| " " " **Mixed** | 10 | 40 |

## VARIEGATED-LEAVED TALL QUEEN

| | Pkt. | Oz. |
|---|---|---|
| **Crimson Beauty.** Deep crimson-scarlet | $0 10 | $0 50 |
| **Queen Alexandra.** Blood-red, mottled and marbled | 10 | 50 |
| **Queen of Spain.** Golden yellow, spotted brown | 10 | 50 |
| **Queen of the Morning.** Aurora-colored shades | 10 | 50 |
| **Queen of the North.** Sulphur-yellow | 10 | 50 |
| **Dwarf Queen, Mixed** | 10 | 40 |

**COLLECTION. One packet each of the twelve Dwarf and Tall, Variegated-leaved Nasturtiums.....75 cts.**

# PHLOX DRUMMONDII (Hardy Annual)

The *Phlox Drummondii* is one of our best annuals, flowering freely all the summer. For richness of color they cannot be surpassed. They are invaluable for beds and ribbon-gardening, therefore no garden should be without them. They should be sown outdoors in May, in a situation well open to the sun, and they will flower and be a mass of color in July and continue until late autumn. Seeds may be sown in a hotbed in March and flowers be had in June.

## Large-Flowering Tall Varieties

This is the finest type, having the largest heads of bloom as well as the largest individual flowers; of strong, sturdy growth, attaining a height of about 15 inches.

| | Pkt. | ½oz. |
|---|---|---|
| **Brilliant.** Finest crimson | $0 10 | $0 75 |
| **Carmine.** Carmine with white eye | 10 | 75 |
| **Chamois-Rose.** Shell-pink | 15 | 1 00 |
| **Isabelliana.** Tea-rose-yellow | 15 | 1 00 |
| **Kermesina.** Scarlet-striped | 10 | 75 |
| **Leopoldii.** Rose with white eye | 15 | 1 00 |
| **Purple.** Deep purple | 10 | 75 |
| **Purple King.** Purple, white eye | 10 | 75 |
| **Rosea.** Enchantress-pink | 10 | 75 |
| **Scarlet.** Rich scarlet | 10 | 75 |
| **Splendens.** Deep crimson, white eye | 10 | 75 |
| **White.** Pure white | 10 | 75 |
| **Finest Tall Mixed** | 10 | 60 |

**Imported Collection.** **1 pkt. each of 6 varieties .... $0 50**
**1 pkt. each of 12 varieties .... 1 00**

## Large-Flowering Dwarf Varieties

This type resembles the tall sorts offered in size of blooms but the plants are dwarfer in habit.

| | Pkt. | ½oz. |
|---|---|---|
| **Chamois-Rose.** Shell-pink | $0 10 | $1 25 |
| **Defiance.** Brilliant crimson | 10 | 1 25 |
| **Fireball.** Scarlet | 10 | 1 25 |
| **Purple.** | 10 | 1 25 |
| **Snowball.** Pure white | 10 | 1 25 |
| **Surprise.** Vermilion, white center | 10 | 1 25 |
| **Finest Dwarf Mixed** | 10 | 1 00 |

**IMPORTED COLLECTION: 1 pkt. each of 6 varieties, 50 cts.**

## HARDY PHLOX

Magnificent, hardy-flowering plants, growing into strong bushes from 2 to 3 feet high, bearing immense heads of large, waxy flowers of lovely shades of color.

| | Pkt. |
|---|---|
| **Large-flowering Hybrids, Tall Mixed** | $0 10 |
| **Large-flowering Hybrids, Dwarf Mixed** | 10 |
| **Large-flowering, Red Shades Mixed** | 25 |

**Star of Quedlinburg.** Of dwarf habit, very pretty, star-shaped flowers; a novel variety; mixed colors. Pkt. 10 cts., ¼oz. 35 cts.

**NEMOPHILA.** Splendid annuals for garden decoration; bright-colored flowers, in shades of blue, white and violet. 1 foot.
**Finest Mixed.** Pkt. 5 cts.

**NICOTIANA affinis.** An annual with sweet-scented, pure white, star-shaped flowers, 3 inches across, blooming continually. 2 to 3 feet high. Pkt. 5 cts.
**Giant Red-flowered.** Magnificent annual of tropical effect, large, luxuriant leaves and immense clusters of rich crimson flowers. 5 feet. Pkt. 5 cts.

## NIGELLA

| | Pkt. | ⅛oz. |
|---|---|---|
| **Damascena, Double Mixed** (Love-in-a-Mist). Pretty garden annuals with feathery green foliage, in which large, double, charming blue or white flowers are set. 1 to 2 feet high | $0 05 | $0 35 |
| **Damascena.** Blue | 05 | 35 |
| " White | 05 | 35 |
| **Hispanica.** Blue | 05 | 35 |
| **Miss Jekyll.** A lovely variety with cornflower-blue blossoms; splendid for cutting. Hardy annual, growing about 2 feet high | 10 | 50 |
| **ŒNOTHERA Fraseri** (Evening Primrose). Hardy perennial border plants of value. Beautiful yellow flowers. July to October. 1½ ft...¼oz. $1.50 | 25 | |
| **Lamarckiana.** Hardy perennial. Enormous yellow flowers. July to October. 3 feet | 05 | 30 |
| **Missouriensis.** Hardy perennial. Rich yellow flowers, 4 to 5 inches across, on trailing, ascending branches. June to August. 1 foot | 10 | 1 50 |

**OXALIS.** Pretty, little, half-trailing annuals, for hanging-baskets, vases, rockwork and edgings, flowering in profusion. 6 to 9 in.

| | Pkt. |
|---|---|
| **Floribunda alba.** Fine for edgings | $0 10 |
| **Floribunda rosea.** Fine for edgings | 10 |
| **Fine Mixed** | 05 |

**PEPPER, Celestial.** Finest strain. One of the decorative plants largely used for Christmas. Pkt. 25 cts.

**PHYSOSTEGIA Virginica** (False Dragon Head). One of the prettiest hardy perennials, forming dense bushes, 3 to 4 feet high, and bearing freely during the summer months spikes of delicate lilac tubular flowers not unlike a gigantic heather. Pkt. 10c.

S. & W. CO.'S LARGE-FLOWERING PHLOX DRUMMONDII

# STUMPP & WALTER CO.'S GIANT PANSIES

This very popular annual needs little description. Good results may be obtained from sowing seed in April in a light, cool, but well-moistened soil, enriched with a slight amount of barnyard manure or fine ground bone. Sow seed in drills, covering them five times their diameter, and firm soil. Water once a day, except in very dry weather, when they may be watered twice a day. Seed will germinate in about two weeks and should not be allowed to dry out. A small covering of newspapers will prevent drying out. When plants are large enough to handle, they should be transplanted to a distance of 1 foot apart. Where greenhouse and coldframe facilities are at hand, seed may be sown in July or August and plants protected during winter.

S. & W. CO.'S GIANT PANSIES

## Pansies in Mixture

Our Pansy Mixtures are prepared in our Flower Seed Department by an expert who has a thorough knowledge of the finest sorts extant, and is done in a very careful manner. Our Pansies have been grown throughout the United States, by leading florists, many of whom have repeated their order every year, thereby giving their unqualified indorsement to our famous strain.

**World's Best Mixture.** This mixture of Giant Pansies has been prepared of the finest varieties grown; blooms of gigantic size, splendid texture; the plants of robust constitution hold their majestic blooms well above the foliage. Every conceivable color and combination of colors has been included. Pkt. 25 cts., 1,000 seeds $2, 5,000 seeds $8.

**Non Plus Ultra.** A mixture of Pansies designed for the critical buyer who desires his beds to look of uniform quality, giving every conceivable color and combination of colors that exists in this highly meritorious flower. Pkt. 15 cts. ¼oz. $1.50, oz. $6.

**Masterpiece** (**Frilled Pansy**). A remarkable type, each petal being conspicuously curled or waved. The color range is quite extensive, the rich, dark, velvety shades predominating. Pkt. 25 cts., ¼oz. $2, oz. $7.50.

**Cassier's Giant.** A grand mixture of the finest blotched varieties; very large in size and rich in coloring. Pkt. 15 cts., ¼oz. $1.50, oz. $5.

**Mme. Perret.** A new and beautiful strain, originated with a French specialist; flowers of large size, borne very freely in a great diversity of colors, especially rich in red and wine shades. Pkt. 20 cts., ¼oz. $2, oz. $7.

**S. & W. Co.'s Special Mixed.** Pkt. 10 cts., ¼oz. 75 cts., oz. $2.50.

**Finest English Mixed.** Pkt. 5 cts., ¼oz. 50 cts., oz. $1.50.

## Giant Pansies in Separate Colors

| | Pkt. | ¼oz. | Oz. |
|---|---|---|---|
| **Giant Adonis.** Soft lavender-blue | $0 15 | $1 50 | $5 00 |
| **Giant Azure-Blue** | 15 | 1 50 | 5 00 |
| **Giant Emperor William.** Deep blue | 15 | 1 50 | 5 00 |
| **Giant Fire King.** Mahogany and gold | 15 | 1 25 | 4 00 |
| **Giant Lord Beaconsfield.** Violet-blue | 15 | 1 50 | 5 00 |
| **Giant Purple** | $0 15 | $1 50 | $5 00 |
| **Giant Snow-White** | 15 | 1 25 | 4 00 |
| **Giant White.** Dark eye | 15 | 1 50 | 5 00 |
| **Giant Pure Golden Yellow** | 15 | 1 50 | 5 00 |
| **Giant Yellow.** Dark eye | 15 | 1 50 | 5 00 |

S. & W. CO.'S GIANT-FLOWERING PETUNIAS

# PETUNIA

The Petunia cannot be equaled by any plant for outdoor decoration. They will flower the first season, even if sown in the open ground, but usually not before June. Those sown in the house or hotbed in April will bloom in June and be larger and finer plants. Half-hardy annual.

**S. & W. Co.'s Giant-flowering Petunias.** The demand for a mixture comprising the best representative types of single-flowering Petunias has been so significant that we have by careful selection and elimination prepared a special mixture. Where a mixture of the Giant single fringed and plain-edged varieties are desired, as well as an assortment of the various colors and shades, our customers will find them **for bedding purposes the finest procurable.** Pkt. 25 cts., 5 pkts. $1.

## GIANT-FLOWERING FRINGED PETUNIAS

### SINGLE VARIETIES

Under this heading we have listed the finest possible varieties of the now popular large-flowering Fringed Petunias. Whether desired for bedding, cutting or general display, the varieties listed are the best by test of the Fimbriata, or fringed large-flowering class.

| | Pkt. |
|---|---|
| **Single Fringed White.** Pure glistening white | $0 25 |
| " " **Yellow.** Canary-yellow | 25 |
| " " **Rose.** Brilliant rose | 25 |
| " " **Crimson.** Dazzling crimson | 25 |
| **Single Fringed Mixed.** A mixture of best fringed varieties including with the above many new colors and shades. Should be grown by everyone desiring the best | 25 |

### DOUBLE VARIETIES

It has been a well-established fact that seed saved from the most carefully hybridized flowers produces a small percentage of double-flowering plants. It is important to save the weaker seedlings, as these invariably produce the finest double flowers.

| | Pkt. |
|---|---|
| **Double Fringed White** | $0 50 |
| " " **Rose** | 50 |
| " " **Crimson** | 50 |
| **Double Fringed Mixed.** A superb mixture of the finest double-fringed varieties, every shade and color represented. Splendid for borders or beds, keeping up a succession of bloom throughout the summer | 50 |

## SINGLE BEDDING VARIETIES

| | Pkt. |
|---|---|
| **Crimson.** Beautiful and effective, compact variety; flowers brilliant crimson | $0 15 |
| **Rosy Morn.** Soft carmine-pink, white center; used very extensively for borders, beds or rockeries | 15 |
| **Snowball.** An excellent, compact variety, producing pure satiny white flowers throughout the entire season; very dwarf. | 15 |
| **Howard's Star.** Rich crimson with distinct white star in the center | $0 15 |
| **Countess of Ellesmere.** Dark rose with fine white throat | 10 |
| **Inimitable compacta.** Bushy little plants covered with pretty striped and star-shaped flowers | 10 |
| **Special Bedding, Mixed.** Select, bright colors ... ¼oz. 25c | 05 |

## PENTSTEMON (Beard Tongue)

Highly useful and attractive hardy perennial, and much used in the hardy border.

### S. & W. Co.'s Giant-flowered Hybrids, Mixed.

This is a mixture of the finest giant-flowering varieties and a very excellent assortment of colors. Pkt. 25 cts.

**Sensation.** As a bedding plant this takes rank with the petunia, phlox, etc. It grows about 2 feet high, every branch being a spike of large, gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, cherry, pink, lilac, purple, etc. Not quite hardy, and best treated like petunias, verbenas, salvia, etc. Pkt. 15 cts., 2 pkts. 25 cts.

**Digitalis** (Foxglove Pentstemon). Spikes of white flowers, with purple throat, during July and August. Pkt. 10 cts.

**Pubescens.** Spikes of bright rosy purple flowers in July and August; 1½ feet. Pkt. 10 cts.

**Mixed.** Good assortment of colors. Pkt. 5 cts.

**PHYSALIS Franchetti** (Chinese Lantern Plant). An ornamental variety of the Winter Cherry, forming dense bushes about 2 feet high, producing bright orange-scarlet lantern-like fruits. Hardy perennial; flowers in fall. Pkt. 25 cts.

## PUERARIA THUNBERGIANA

(Japanese Kudzu Vine)

To this must be awarded first place as the fastest-growing hardy climbing plant. It will grow 8 to 10 feet the first year from seed, and after it has become established there seems to be no limit to its growth, 50 feet in a single season being not unusual. Its foliage is large and covers well; it bears small racemes of rosy purple, pea-shaped blossoms toward the close of August. A splendid subject for permanently covering verandas, dead trees, etc. Pkt. 10 cts., ¼ oz. 30 cts.

**PASSION FLOWER.** Handsome, rapid-growing perennial climber for greenhouse decoration or sunny positions in the open ground in summer.

| | Pkt. |
|---|---|
| **Cærulea.** Large flowers of violet and blue | $0 10 |
| **Alba.** Large, white flowers | 10 |
| **Incarnata.** Flesh-colored | 10 |
| **COLLECTION. One packet of each** | **$0 25** |

SHIRLEY POPPIES

## PORTULACA Hardy Annual

### SINGLE GRANDIFLORA

| | Pkt. | Oz. |
|---|---|---|
| **Alba.** Pure white | $0 05 | $0 60 |
| **Aurea.** Deep golden yellow | 05 | 60 |
| **Rosea.** Beautiful rose | 05 | 60 |
| **Splendens.** Crimson | 05 | 60 |
| **Finest Mixed** | 05 | 40 |

### DOUBLE GRANDIFLORA

| | | |
|---|---|---|
| **Alba.** White | 10 | 4 00 |
| **Rosea.** Rose | 10 | 4 00 |
| **Salmonea.** Salmon | 10 | 4 00 |
| **Splendens.** Crimson | 10 | 4 00 |
| **Sulphurea.** Yellow | 10 | 4 00 |
| **Finest Mixed** | 10 | 3 50 |

**POLEMONIUM** (Jacob's Ladder). Hardy perennial, with clusters of blue-and-white flowers. Foliage deeply cut and ornamental. 2 feet. May to August.

| | Pkt. | Oz. |
|---|---|---|
| **Cæruleum grandiflorum.** Deep blue | $0 10 | $0 75 |
| **Cæruleum album.** Pure white | 10 | 75 |
| **Richardsonii.** Sky-blue | 10 | 1 00 |

**PLATYCODON.** See **Wahlenbergia.**

## POPPIES

There is probably no flower of greater popularity than the Poppy, particularly the annual varieties.

### Single Hardy Annual Poppies

| | Pkt. | Oz. |
|---|---|---|
| **Shirley, Carmine Shades** | $0 10 | $0 75 |
| " **Rose Shades** | 10 | 75 |
| " **Salmon Shades** | 10 | 75 |
| " **White Shades** | 10 | 75 |
| " **Finest Mixed** | 05 | 50 |
| **Admiral.** A single peony-flowered variety of surpassing beauty, having large, smooth-edged flowers of glistening white, with a broad band of brilliant scarlet around the top. Excellent for grouping. | 10 | 1 00 |
| **Danebrog.** Large flowers of brilliant scarlet, with a silvery white spot on each petal | 05 | 25 |
| **Glaucum** (Tulip Poppy) | 10 | 50 |
| **English Scarlet.** Very attractive | 10 | |

### Double Hardy Annual Varieties

| | Pkt. | Oz. |
|---|---|---|
| **American Flag.** White-margined orange-scarlet | $0 10 | $0 30 |
| **Carnation-flowered.** Finest mixed | 05 | 25 |
| **White Swan.** Immense flowers, beautifully fringed | 05 | 25 |
| **Peony-flowered.** Mixed | 05 | 25 |
| **Ranunculus, or French, Mixed** | 05 | 25 |

### Hardy Perennial Varieties

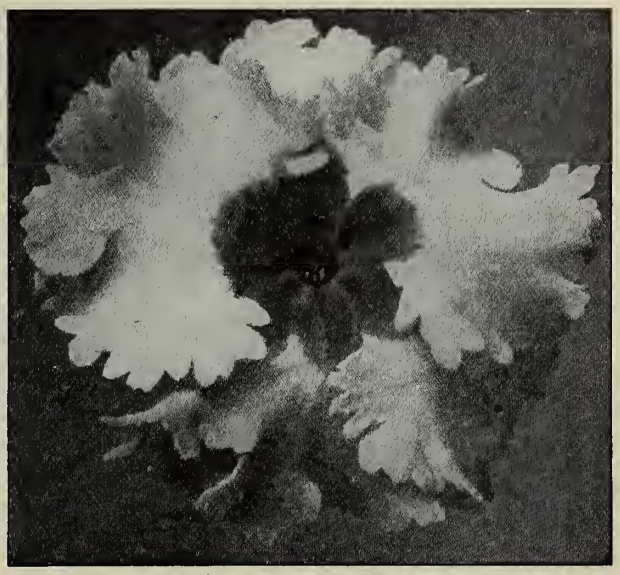
Too much cannot be said of this class of Poppies, as for general effectiveness and brilliancy of display they are unequaled.

| | Pkt. | Oz. |
|---|---|---|
| **Bracteatum, Scarlet.** Immense orange-scarlet flowers, very similar to the Oriental variety | $0 10 | |
| **Iceland (Nudicaule) Scarlet** | 10 | $1 00 |
| " " **White** | 10 | 1 00 |
| " " **Yellow** | 10 | 1 00 |
| " " **Mixed** | 10 | 75 |
| " " **Double Mixed** | 10 | 75 |
| **Orientale, Rose.** 3 feet | 10 | 1 50 |
| " **Brilliant Scarlet.** 3 feet | 10 | 1 50 |
| " **Little Prince.** 1½ feet | 10 | |
| " **Prince of Orange.** 3 feet | 10 | |
| " **Finest Mixed** | 10 | |

SOW ANNUAL POPPIES EARLY IN SPRING WHERE INTENDED TO BLOOM

# PRIMULA (Primrose)

The charming and beautiful Chinese Fringed Primroses and Obconica varieties are among the most important winter-blooming pot-plants. The seed we offer is of the highest merit, and has, as usual, been saved from the best strains of English and Continental growth. Florists and others report that they have never seen finer flowers than those produced from our seed. Seed sown in April will bloom during early winter; August for spring blooming. Sow in shallow pans, in soil consisting of part sand and leaf-mold worked through a fine sieve and allow for good drainage. Cover seeds lightly and water frequently; give a temperature of about 65 degrees.



S. & W. CO.'S PRIMULA SINENSIS

## Primula Sinensis (Chinese Primrose)

This beautiful Chinese Fringed Primrose is indispensable for spring decoration in the home or conservatory, and ranks as one of the finest of all winter-blooming pot-plants grown by the florist or the home gardener. Our Giant Fringed strain is of the highest merit and is carefully selected

**Giant magnifica, Blue**
**Giant Crimson**
**Giant Rose Queen**
**Giant Ruby Queen**
**Giant Salmon**
**Giant White, Fern-leaved**
**Giant Mixed**

**Pkt. 75 cts.; collection of 6 pkts. for $4.25**

**Giant Double, White**
**Giant Double, Scarlet**
**Giant Double, Blue**
**Giant Double, Rosy Pink**
**Giant Double, Salmon-Pink**
**Giant Double, Mixed**

**Pkt. 75 cts.; collection of 6 pkts. for $4.25**

## Primula stellata

A very pretty form, with large heads of star-shaped flowers of various colors; a splendid type for decorative purposes.

**Giant White Star**
**Giant Crimson Star**
**Giant Rosy Star**
**Giant Salmon-Pink**
**Giant Blue Star**
**Giant Mixed**

**Pkt. 75 cts.; collection of 6 pkts. for $4.25**

## Primula obconica gigantea

This type of Primula outrivals the old Obconica type, the flowers being considerably larger, often measuring 1½ inches in diameter.

| | Pkt. |
|---|---|
| **Obconica gigantea Kermesina.** Rich crimson | $0 25 |
| " " **rosea.** Rose | 25 |
| " " **alba** | 25 |
| " " **lilacina.** Beautiful lilac | 25 |
| " " **Mixed.** A mixture containing pure white to crimson | 25 |

## HARDY PRIMROSES

These are among the best of the early spring-blooming plants. With a slight protection they will stand the winter, but will do better if protected by a coldframe.

**Auricula.** A well-known favorite of great beauty; seed saved from splendid choice mixed varieties. 6 inches....Pkt. $0 15

**Japonica** (Japanese Primrose). Bright and showy flowers, borne in whorls on stems 6 to 9 inches long;. Mixed.. Pkt. 10

PRIMULA VULGARIS (English Primrose)

**Vulgaris** (English Primrose). Canary-yellow; fragrant. ¼oz. 50 cts., pkt. 10 cts.

For **Primula Forbesi, Kewensis** and **malacoides** see page 5.

S. & W. CO.'S SINGLE PYRETHRUM

# PYRETHRUM

The first-named variety is the well-known Golden Feather so much used for edging, carpet-bedding, etc., while the others are most attractive hardy plants, with daisy-like flowers that are perfect gems for cutting. No hardy border should be without these charming plants, as their flowers make delightful subjects for home decoration.

**Aureum** (Golden Feather). Half-hardy perennial, grown as an annual. Valuable for edging, as the foliage makes a fine contrast with other bedding plants. Pkt. 5 cts., oz. 50 cts.

**S. & W. Co.'s Single Hybrids.** Our strain of this beautiful hardy perennial has been grown specially in England for us by a specialist of this flower. The cosmos-like flowers range in color from the palest pinks to deep red, the bright yellow centers forming a splendid contrast. Blooming as they do during May and June and again in the fall, and on account of their long-lasting and utility as a cut-flower, we recommend them highly to our patrons. Pkt. 25 cts., 5 pkts. $1.

**S. & W. Co.'s Double Hybrids.** Colors and character of plants similar to the above, except that centers are tufted, somewhat resembling a double China aster. Pkt. 25 cts., 5 pkts. $1.

## SALPIGLOSSIS (Painted Tongue)

Few annual flowers contribute such a wealth of bloom from summer until cut down by frost. It is only of recent years that American gardeners have become better acquainted with this delightful annual. As a cut-flower it has become highly prized. The funnel-shaped flowers, facing upward, revealing their exquisite markings of either gold or silver veins running through the ground-work of the flowers, and their orchid-like appearance, make them instant favorites.

For best results sow seed in a hotbed or sunny window, and when all danger of frost is past, place in the garden, allowing 8 inches between the plants.

### Salpiglossis superbissima

**(Orchid-Flowering)**

This orchid-flowering strain branches freely from the main stem, forming fine, spreading plants, flowering freely from all branches, making it invaluable for cutting.

| | Pkt. | ¼oz. |
|---|---|---|
| **Purplish Violet** | $0 10 | $1 00 |
| **Pink.** Bright pink | 10 | 1 00 |
| **Light Blue.** Veined gold | 10 | 1 00 |
| **Golden Yellow.** Rich color | 10 | 1 00 |
| **Scarlet.** Rich color | 10 | 1 00 |
| **Brown with Gold** | 10 | 1 00 |
| **Finest Mixed** | 10 | 75 |

**COLLECTION: One packet each of 6 separate varieties, 50 cts.**

**Emperor.** This variety forms only one leading stem, and bears at its summit a veritable bouquet of flowers in a mixture of colors, covering shades of scarlet, pink, yellow and violet. Grows about 2 feet high, and is largely used for mass effect in the garden. Pkt. 10 cts., ¼oz. 50 cts.

SALPIGLOSSIS SUPERBISSIMA (Orchid-flowering)

SALVIA SPLENDENS (Scarlet Sage)

## SALVIA

One of our most handsome summer- and autumn-flowering plants growing into compact bushes about 3 feet high and literally ablaze with brilliant flowers; very effective for massing on the lawn and for garden decorations. Half-hardy perennial.

**Splendens** (Scarlet Sage). Beautiful bright scarlet; 3 feet. Pkt. 5 cts., oz. $2.

**Bonfire** (*Salvia splendens nana compacta erecta*). This variety without question, is the finest Salvia for bedding yet introduced. The plants grow into very compact oval bushes, about 2½ feet high and produce long spikes of brilliant scarlet flowers. They stand out stiff and erect; over 200 spikes to a plant is not unusual and the spikes bear from twenty to thirty flowers each. Gorgeous effects can be produced with the Bonfire Salvia massed on the lawn or in the garden, or planted in rows along a sunny drive where the brilliant scarlet is simply dazzling. Pkt. 10 cts., ¼oz. $1.50, ½oz. $2.50, oz. $5.

**"Burning Bush."** This variety of Scarlet Sage forms strong, sturdy bushes 2½ feet high, and bears the finest individual spikes of flowers of all, many of them being over 18 inches in length; color intensely rich scarlet; decidedly one of the best. Pkt. 10 cts., ¼oz. 75 cts.

**Zurich.** A splendid dwarf variety, growing about 2 feet high, and is especially valuable on account of being the earliest to bloom, flowering 10 days in advance of any other sort. Pkt. 20 cts., ⅛oz. 75 cts.

**Patens** (Blue Sage). In color this is as blue as the "Scarlet Sage" is red; unlike the latter, however, it is not useful for bedding, but is a beautiful plant for the border or greenhouse; tender perennials. 2 feet. Pkt. 25 cts.

**Azurea grandiflora.** A hardy perennial variety, producing during August and September spikes of pretty sky-blue flowers in great profusion. 2 to 3 feet. Pkt. 10 cts.

**Farinacea.** A perennial variety, but best grown as an annual. Seeds sown in the open ground in May bloom from July to frost. The fine light blue flowers are borne on long spikes held above the foliage; makes a good blue line. 2 feet. Pkt. 10 cts.

## Rehmannia

**Angulata.** Greenhouse herbaceous perennial from central China, erect habit; 2 to 3 feet in height; flowers 3 inches in diameter, rosy purple with yellow throat, spotted with deep purple; of easy culture; blooms nine months from time of sowing seed. Pkt. 25 cts.

SCABIOSA, IMPROVED LARGE-FLOWERING

# SCABIOSA

**Mourning Bride; Pin-Cushion Flower; Sweet Scabious**

These beautiful hardy annuals are in great demand. They grow about 2½ feet high and bloom from early in July without interruption until cut down by the frost. As a flower for cutting they are much in demand. The various shades are very charming, but are equally well adapted for borders or beds, where they display themselves very effectively. Seeds should be sown any time in the spring after danger of frost is past.

## IMPROVED DOUBLE LARGE-FLOWERING

| | Pkt. | Oz. |
|---|---|---|
| **Azure Fairy.** Lavender-blue | $0 10 | $0 75 |
| **Fiery Scarlet.** Dazzling color | 10 | 75 |
| **Flesh-color.** Light pink | 10 | 75 |
| **Cherry-Red.** Rich red | 10 | 75 |
| **King of the Blacks.** Purplish black | 10 | 75 |
| **White.** Pure white | 10 | 75 |
| **Tall Double-flowering, Mixed** | 05 | 50 |
| **Dwarf Double-flowering, Mixed** | 05 | 50 |
| **COLLECTION. One packet each of 6 separate varieties,** | $0 50 | |

## HARDY PERENNIAL VARIETIES

**Caucasica** (Blue Bonnet). One of the handsomest of hardy perennials, especially valuable for cutting, the blooms lasting a long time in water; lilac-blue. 3 feet. Pkt. 10 cts

**Caucasica alba.** Pure white. 3 feet. Pkt. 10 cts.

**Japonica.** A hardy perennial variety from Japan, forming bushy plants 2½ feet in height by the same through, and bearing on long, wiry stems beautiful, artistic, lavender-blue flowers, extremely floriferous, producing a continuous crop all summer. A fine cut-flower. Pkt. 15 cts.

# SCHIZANTHUS (Butterfly or Fringe Flower)

These dainty annual plants are of easy culture in any good garden soil. The dwarf sorts are frequently used for edging borders or beds. For outdoor blooming, sow seed in May where intended to bloom and thin out to 6 inches. Seeds germinate quickly and flower with ordinary care. They are also useful as pot-plants for spring flowering, the seed being sown in early fall and the plants kept in a light house and given plenty of room as they need it. A cool temperature seems to suit the plants best, and they will grow vigorously.

**Dwarf Hybridus grandiflorus.** New. A very popular strain of this well-known showy annual; plants grow 12 inches in height, of compact and pyramidal habit, with a great range of colors, bright and handsome. Splendid for border planting. Pkt. 25 cts.

**Wisetonensis.** A variety largely used as a pot-plant for the house or conservatory. It is remarkably free-flowering, and presents a beautiful appearance, with its myriads of blooms, the ground-color of which is white, dotted with delicate rose. Pkt. 25 cts.

**Mixed.** A splendid mixture of the regular type. Pkt. 10 cts.

**SENSITIVE PLANT.** See **Mimosa.**

**SILENE** (Catchfly). Bright-colored, free-flowering annuals, suitable for rockwork or open borders. The variety Pendulata is largely used for spring borders or beds.

**Armeria.** Separate colors—Red, White or Pink. Pkt. 10 cts.

**Pendulata.** Separate colors—Pink or White. Pkt. 10 cts.

**Pendulata, Double.** Mixed colors. Pkt. 10 cts.

**SHAMROCK, Small-leaved.** Pkt. 50 cts.

**SMILAX** (*Myrsiphyllum asparagoides*). In many respects the Smilax is the most useful, and it is certainly one of the most graceful climbers which adorn the greenhouse or conservatory; for bouquets and floral decorations it is indispensable. The hard seeds need soaking over night before planting; also bottom heat to sprout them. Pkt. 10 cts., ¼oz. 25 cts.

SCHIZANTHUS WISETONENSIS

S. & W. CO.'S GIANT PERFECTION STOCKS

**TAGETES signata pumila.** A dwarf, compact, bushy annual Marigold, with beautiful, delicate, fern-like leaves, densely covered with flowers of bright yellow, striped brown; a first-class border plant. Pkt. 5 cts., ¼oz. 25 cts.

**THUNBERGIA** (Black-eyed Susan). Beautiful, rapid-growing annual climbers, preferring a warm, sunny situation; used extensively for hanging-baskets, vases, low fences, etc.; very pretty flowers in buff, white, orange, etc., with dark eyes. 4 feet. Mixed colors, pkt. 5 cts., ¼oz. 25c.

**TORENIA Fournieri.** A very fine annual; splendid for vases, hanging-baskets, borders, etc. Sky-blue, with bright yellow center. Pkt. 10 cts.

# STOCKS

These popular flowers are easily grown, and are so highly fragrant and of such great beauty, and have so many good qualities, that they deserve a place in every garden. They should be given good rich soil to grow in, and will amply reward good treatment with remarkably large pyramids of bloom; the flowers represent a great diversity of color. The Tall Perfection and Dwarf Bouquet Stocks are great improvements over the Gilliflowers of the olden times, the flowers being much larger and more densely double, and there is also a much larger variety of colors and shades than there used to be.

As they are half-hardy annuals, seed should be started in the house or hotbed during March or April, and planted into small pots; and then set out in the garden during May, allowing 1 foot of space between the plants, in order that they may attain full and perfect development.

Our stock seed is high-bred, being produced from plants grown in pots by a specialist, and will afford a very large percentage of double-flowering plants.

## S. & W. Co.'s Improved Giant Perfection

These are an improvement on the variety offered as Ten Weeks Stock. Of splendid, pyramidal growth, freely branching from the main stem, giving an abundance of large spikes of double flowers from early summer until fall, and are used largely for cutting. 2 feet.

| | Pkt. | ⅛oz. | | Pkt. | ⅛oz. |
|---|---|---|---|---|---|
| **White** | $0 25 | $1 00 | **Light Blue** | $0 25 | $1 00 |
| **Chamois-Rose** | 25 | 1 00 | **Dark Blue** | 25 | 1 00 |
| **Fiery Crimson** | 25 | 1 00 | **Sulphur-Yellow** | 25 | 1 00 |
| **Purple** | 25 | 1 00 | **Mixed** | 25 | 1 00 |

## S. & W. Co.'s Dwarf Bouquet

This is a leading class for bedding out for summer blooming. They come into bloom earlier than the preceding varieties, but are dwarfer in habit and do not make so fine flowers for cutting.

| | Pkt. | ⅛oz. | | Pkt. | ⅛oz. |
|---|---|---|---|---|---|
| **White** | $0 25 | $1 00 | **Light Blue** | $0 25 | $1 00 |
| **Brilliant Rose** | 25 | 1 00 | **Dark Blue** | 25 | 1 00 |
| **Pale Pink** | 25 | 1 00 | **Sulphur-Yellow** | 25 | 1 00 |
| **Fiery Crimson** | 25 | 1 00 | **Mixed** | 25 | 1 00 |

## Giant-Flowering Beauty Stocks

A magnificent, recently developed strain of early-flowering winter or Brompton Stocks, forming much-branched plants about 2 feet high, and having numerous spikes of very large, double, delightfully fragrant flowers; they are of special value as pot-plants for greenhouse decoration and for cutting during the dull winter months; for this purpose seed should be sown from July to September; if sown in February or March will produce plants that will bloom out-of-doors from midsummer to frost.

| | Pkt. |
|---|---|
| **Beauty of Nice.** Delicate pink | $0 25 |
| **Crimson King.** Rich blood-crimson | 25 |
| **Empress Augusta Victoria.** Rich blue | 25 |
| **Empress Elizabeth.** Rich deep rose | 25 |
| **Mont Blanc.** Purest white | 25 |
| **Queen Alexandra.** Beautiful lilac | 25 |
| **Sulphur King.** Rich yellow | 25 |

## Solanum

**Capsicastrum** (Jerusalem Cherry). This is a very useful pot-plant for winter decoration. It is of dwarf, branching habit; leaves small and oval-shaped; bears in the greatest profusion bright scarlet, globular berries; very ornamental. 1 foot. Pkt. 10 cts.

**STATICE** (Sea Lavender). Splendid hardy perennial, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets. Mixed varieties. Pkt. 10 cts.

**STEVIA serrata.** A free-blooming plant, bearing a multitude of fragrant, pure white flowers; suitable for summer or winter blooming; largely used for cutting. Pkt. 10c

## STOKESIA (Cornflower Aster)

**Cyanea.** This is not new, but is a rare and beautiful hardy perennial. The plant grows about 2 feet high, bearing from twenty to thirty handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting. Pkt. 15 cts., ¼oz. $1.

**Cyanea alba.** A pure white-flowering form, identical to the popular blue variety in every way except color. Pkt. 15 cts., ¼oz. $1.

## Streptocarpus hybridus

A new hybrid race of the Cape Primrose, the flowers somewhat resembling those of the gloxinia, but smaller. The plants are compact in habit, the flowers about 2 inches in diameter, with long, tube-like corollas, and are borne in clusters of six to eight on a stem, with several stems to the plants. The colors are varied from white through shades of pink, rose, wine-red, light blue, mauve, etc., many having white throats or marked in various ways. Used for greenhouse decoration. Pkt. 50 cts.

# Giant Waved or Spencer Sweet Peas

The Spencer Waved Sweet Pea is a distinct advance in the development of the Sweet Pea. No modern garden is complete without this grand type. The chief characteristic of the Spencer Sweet Peas is their robust growth, plants frequently attaining a height of 6 to 10 feet, requiring a foot of space in the row for each plant to fully develop. The flowers are gracefully formed; both standard and wings are larger than in the Grandiflora type, flowers often measure 2 to 2½ inches in diameter and are borne on stems 18 inches long, with four blooms. We have listed below all varieties of the Spencers that we catalogue, except the novelties of this year's introduction.

**AFTERGLOW.** Pastel shade; standard bright violet-blue, shading to rosy amethyst, wings electric blue. Pkt. 20 cts., oz. 50 cts., ¼lb. $1.50.

**AGRICOLA.** Pleasing shade of blush-pink suffused rosy lilac. Special strain. Pkt. 25 cts., 5 pkts. $1.

**AMERICA SPENCER.** White ground, mottled and flaked crimson-scarlet. Pkt. 10 cts., oz. 30 cts., ¼lb. $1.

**ASTA OHN.** Soft pinkish lavender. Pkt. 10c., oz. 35c., ¼lb. $1.25.

**AURORA SPENCER.** White ground, striped and flaked orange-pink. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**BARBARA.** Salmon-colored; quite uniform. Special strain. Pkt. 25 cts., 5 pkts. $1.

**BLANCHE FERRY SPENCER.** Standards rose, wings white. Pkt 10 cts., oz. 30 cts., ¼lb. $1.

**CAPTAIN OF THE BLUES SPENCER.** Pure purple, margin of petals marbled. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**CAPTIVATION SPENCER.** Rich, rosy wine-red. Pkt. 20 cts., oz. 50 cts., ¼lb. $1.50.

**CHARLES FOSTER.** Pastel shade; general effect of flower mauve-pink. Pkt. 20 cts., oz. 60 cts., ¼lb. $2.

**COUNTESS SPENCER.** Bright shade of pink. Pkt. 10 cts., oz. 30 cts., ¼lb. $1.

**DAINTY SPENCER.** White ground, beautiful picotee edge of rose-pink. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**DOBBIE'S CREAM.** Deep cream; a grand variety. Special strain. Pkt. 25 cts., 5 pkts. $1.

**ELFRIDA PEARSON.** Giant size; pale pink on white ground. Pkt. 20 cts., oz. 50 cts., ¼lb. $1.50.

**ETTA DYKE.** A splendid white variety. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**FLORENCE MORSE SPENCER.** Standard richly flushed pink, wings soft blush. Pkt. 10 cts., oz. 30 cts., ¼lb. $1.

**FLORENCE NIGHTINGALE.** Rich lavender, soft pink sheen. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**GEORGE HERBERT.** Rose-crimson, suffused with magenta. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**HELEN LEWIS.** Fine orange-salmon-pink. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**HERCULES.** Might well be described as a giant or larger Countess Spencer. Pkt. 20 cts., oz. 60 cts., ¼lb. $2.

**JULIET.** Salmon-blush on cream ground. Special strain. Pkt. 25 cts., 5 pkts. $1.

**KING EDWARD SPENCER.** A pure red Spencer. Special strain. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**KING MANOEL.** Rich deep maroon. Special strain. Pkt. 25c., 5 pkts. $1.

**KING WHITE.** The finest white for exhibition. Special strain. Pkt. 25 cts., 5 pkts. $1.

**LADY MILLER.** Pure salmon-pink; exquisite. Special strain. Pkt. 25 cts., 5 pkts. $1.

**LOYALTY.** Ground-color white, striped and flaked blue. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**MARGARET ATLEE.** Warm salmon-pink, suffused over a cream ground; exquisite. Special strain. Pkt. 20 cts., oz. 60 cts., ¼lb. $2.

**MARGARET MADISON.** A self-colored clear azure-blue; exquisite. Pkt. 20 cts., oz. 60 cts., ¼lb. $2.

**MRS. CUTHBERTSON.** Standard clear rose-pink, wings white, with faint blush of pink. Special strain. Pkt. 20c., oz. 60c., ¼lb. $2.

**MRS. C. W. BREADMORE.** Creamy buff ground, beautifully edged with rose-pink. Special strain. Pkt. 15 cts., oz. 50 cts., ¼lb. $1.50.

**MRS. HARDCASTLE SYKES.** Blush-pink. Special strain. Pkt. 25 cts., 5 pkts. $1.

**MRS. HUGH DICKSON.** The best of the cream-pinks. Pkt. 15 cts., oz. 50 cts., ¼lb. $1.50.

**MRS. ROUTZAHN.** Beautiful blending of soft straw-color, tinted blush-pink. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.25.

**MRS. TOWNSEND.** White ground, edged pale blue. Pkt. 15c., oz. 50 cts., ¼lb. $1.50.

**NUBIAN.** The finest deep chocolate-maroon. Pkt. 15 cts., oz. 50 cts., ¼lb. $1.50.

**OTHELLO SPENCER.** Glossy maroon. Pkt. 10c., oz. 30c., ¼lb. $1.

**PEARL-GRAY.** Lovely pale gray. Pkt. 15 cts., oz. 50 cts., ¼lb. $1.50.

**PRIMROSE SPENCER.** The finest primrose. Special strain. Pkt. 15 cts., oz. 50 cts., ¼lb. $1.50.

**QUEEN VICTORIA SPENCER.** Opens blush-tint, then turns to clear primrose. Black-seeded. Pkt. 10 cts., oz. 30 cts., ¼lb. $1.

**SCARLET EMPEROR.** Considered the finest rich scarlet. Special strain. Pkt. 25 cts., 5 pkts. $1.

**SENATOR SPENCER.** Chocolate and seal-brown, striped, flaked and mottled on ivory-white. Pkt. 10 cts., oz. 30 cts., ¼lb. $1.

**STIRLING STENT.** Glorious deep salmon, suffused with orange. Pkt. 15 cts., oz. 50 cts., ¼lb. $1.50.

**TENNANT SPENCER.** A curious purplish mauve. Pkt. 10 cts., oz. 30 cts., ¼lb. $1.

**THOMAS STEVENSON.** Brilliant orange-scarlet, the finest of its color. Special strain. Pkt. 20 cts., oz. 60 cts., ¼lb. $2.

**VERMILION BRILLIANT.** Brilliant scarlet; very fine. Pkt. 20 cts., oz. 60 cts., ¼lb. $2.

**WHITE SPENCER.** Splendid, uniform white. Pkt. 10 cts., oz. 30 cts., ¼lb. $1.

**W. T. HUTCHINS.** Soft delicate blush and straw, shaded apricot. Pkt. 10 cts., oz. 30 cts., ¼lb. $1.

Captain of the Blues Spencer Sweet Peas

**GRAND PRIZE MIXTURE**
**Giant Spencer Sweet Peas**

This is a combination of the best varieties of the Spencer Sweet Peas, and includes every described color and shade, good care being taken to have all the best varieties.

| | |
|---|---|
| Packet | $0 10 |
| Ounce | 25 |
| Quarter-pound | 75 |
| Half-pound | 1 35 |
| Pound | 2 50 |

Grandiflora Sweet Peas

# Select Unwin and Grandiflora Sweet Peas

**CULTURE OF SWEET PEAS.** It is a well-known fact that, in order to have largest blooms of Sweet Peas, seed must be planted early so as to make the greatest root-development during early spring; many professional gardeners sow in pots and transplant in April, or sow the previous fall.

**Sow seed as soon as the ground can be worked in the spring.** Dig a trench about a foot wide and deep, and fill in with 6 inches of well-rotted stable manure; tread down firmly and replace the good garden soil. Draw a single straight line in the middle of the prepared surface, about ¾ inch deep; sow seed at even distances of about 3 inches and cover. When the plants grow about 3 or 4 inches high, thin out, leaving the plants 6 inches from each other. (Experts who raise for exhibition thin out to one foot.)

The cut-worm is one of the greatest enemies of Sweet Peas, attacking the young shoots just as they come up. At the first appearance of this pest a good sprinkling of lime over the row sometimes helps to exterminate it. As soon as the vines reach a height of about 8 inches, proper trellis or other supports should be provided.

The Sweet Pea is a moisture-loving plant, and by the month of May the plants will require water. In order that the water may be retained by the soil and get to the roots, as well as to keep them cool, it is advisable to use a mulch of old stable manure and soak well with hose each or every other day, as needed.

## FIVE SELECT UNWINS

Although of distinct origin, Gladys Unwin is nearly of the same type as the Countess Spencer, but the flowers are not so large. These seedling varieties resemble the parent and generally come uniformly waved and fluted.

**Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., ½lb. $1.25, lb. $2.25**

**E. J. CASTLE.** Rich carmine-rose with salmon shading in the standard.
**NORA UNWIN.** Large, beautiful white; three flowers frequently come to the stem.
**FRANK DOLBY.** A lovely light lavender-blue, one of the best.
**GLADYS UNWIN.** A bold flower with a striking, upright standard which is crinkled and waved; broad wings. Of a lovely light pink.
**MRS. ALFRED WATKINS.** Both standard and wings are a clear pink.

# SELECT GRANDIFLORA SWEET PEAS

Grandiflora Sweet Pea is a group title given the older standard and Eckford varieties. We give below a list of the best varieties, taken from over a hundred sorts. We have decided only to catalogue the finest of this type, and while our customers may find that we have failed to list an old favorite, we have endeavored to replace it with a better variety.

**America.** Large, bold flower; white, striped with blood-red.
**Blanche Ferry.** Extra early; pink and white.
**Black Knight.** Deep maroon, self-colored.
**Captain of the Blues.** Standard purple-blue, wings bright blue.
**Countess of Lathom.** Delicate self-pink.
**Earliest of All.** Pink and white; very early.
**Earliest Sunbeams.** Very desirable for early flowering. Rich primrose, generally borne three on a strong stem.
**Emily Henderson.** Large white flowers.
**Evelyn Byatt.** Rich orange standard with falls or wings of a deeper color, giving a rich, fiery orange or deep sunset color to the entire flower; very striking and unique.
**Helen Pierce.** Blue-mottled on white ground; a pretty and distinct variety.
**Hon. Mrs. E. Kenyon.** Primrose.
**Janet Scott.** Deep, bright pink.
**King Edward VII.** Excellent scarlet flower.
**Lady Grisel Hamilton.** Silvery lavender.
**Lovely.** Soft shell-pink; large-flowering.
**Marchioness of Cholmondeley.** Cream, shaded and edged with pink.
**Mont Blanc.** Earliest-flowering white.
**Mrs. Walter Wright.** A beautiful shade of mauve.
**Queen Alexandra.** Considered by many to be one of the finest scarlets.
**White Wonder.** Truly named, this Sweet Pea often bears six flowers to a stem, some of which frequently come double.

**Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., ½lb. 75 cts., lb. $1.25. One ounce will sow a single row 25 feet long**

**S. & W. Co.'s High-Grade Mixed.** This Mixture, covering all the varieties of Grandiflora Sweet Peas offered above, cannot be excelled where a high-grade mixture of every conceivable color and shade is desired. Great care has been exercised in a careful blending of all sorts in even proportions. Pkt. 5 cts., oz. 15 cts., ¼lb. 30 cts., ½lb. 60 cts., lb. $1.

# SWEET PEAS FOR WINTER FLOWERING

CULTURE.—A great mistake is often made in sowing winter-flowering Sweet Peas too thickly. An ounce should be sufficient for a row 25 feet long; thin out to 3 inches apart. Sow the first week in September for Christmas flowering. For January, February or March, end of September. Best results can be obtained by maintaining a night temperature of 40° to 45°, and 50° to 55° in the daytime. Spray vines frequently to keep down red spider, thrip and greenfly. Feed when plants are in full bloom.

## GENERAL LIST OF CHRISTMAS-FLOWERING SWEET PEAS

**S. & W. CO.'S EARLIEST WHITE.** The earliest white on the market, often blooming in six weeks from sowing.
**S. & W. CO.'S CHRISTMAS PINK.** If sown by Sep. 1 under glass, flowers may be cut from Thanksgiving to Christmas.
**S. & W. CO.'S CHRISTMAS WHITE.** This variety is grown very extensively by leading florists, and sold in large quantities.
**Christmas Captain.** Blue and purple.
**Christmas Meteor.** Scarlet.
**Earliest Sunbeam.** Pale primrose-yellow.
**Florence Denzer.** Pure white.
**Le Marquis.** This is the same color as Princess of Wales violet. Large flowers.
**Mrs. E. Wild.** Carmine or dark pink.
**Mrs. Alex. Wallace.** Bright lavender; a very popular sort.
**Mrs. William Sim.** Salmon-pink.
**Mrs. W. W. Smalley.** Satiny pink.
**Mrs. Hannan.** Deep rose-pink of a very pleasing shade; medium flower.
**Mrs. F. J. Dolansky.** Daybreak-pink.
**Mrs. Charles Totty.** Sky-blue; late.
**Snowbird.** Early; white.
**W. J. Stewart.** Bright blue.
**Wachtung.** Pure white; tall grower.

**Any of the above, pkt. 10 cts., oz. 30 cts., ¼lb. $1**

## SWEET WILLIAM (*Dianthus barbatus*)

A well-known, attractive biennial which flowers the second season from seed. Sow outdoors in May, and transplant in August.

| | Pkt. | ¼oz. |
|---|---|---|
| **Single White** | $0 05 | $0 25 |
| **Single Crimson** | 05 | 25 |
| **Single Scarlet** | 05 | 25 |
| **Single Red, Margined White** | 05 | 25 |
| **Single Black-Red** | 05 | 25 |
| **Single Finest Mixed** | 05 | 20 |
| **COLLECTION. One pkt. each of 5 separate colors** | | $0 20 |
| | Pkt. | ¼oz. |
| **Double White** | $0 10 | $1 00 |
| **Double Crimson** | 10 | 1 00 |
| **Double Black-Red** | 10 | 1 00 |
| **Double Pink** | 10 | 1 00 |
| **Double Finest Mixed** | 10 | 75 |

**Newport Pink.** A distinct new color which originated in one of the far-famed gardens at Newport, R. I. In color it is what florists call watermelon-pink or salmon-rose; strikingly brilliant and beautiful. The flowers are borne in massive heads, on stems 18 inches high. For midseason mass bedding it has no equal. It is also very effective for cutting. Pkt. 15 cts., 2 pkts. 25 cts.

**Scarlet Beauty.** A very effective, rich, deep scarlet variety. Pkt. 15 cts., 2 pkts. 25 cts.

**Holborn Glory.** This strain is a large-flowered selection of the auricula-eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear, white eye, is truly superb. Pkt. 10c., ¼oz. 25c.

**TRITOMA uvaria grandiflora** (Red-Hot-Poker Plant). Hardy perennial. Flowers scarlet, orange and yellow, on a very prominent spike. September. 4 feet. Pkt. $0 10

**Express.** New. Similar to above, but throws up its flowers as early as June and continues till frost. 20

**May Queen.** New. Hardy perennial. Bright yellow flowers appear continuously from June till frost. The best sort in cultivation. 2 feet. June to October. 25

**TROLLIUS Caucasicus** (Orange Globe). A beautiful hardy perennial, with large, double, deep yellow flowers. 1 foot. 25

**Europæus** (Double Buttercup). Hardy perennial, with very large, yellow, globular flowers from May to August. 10

**Japonicus** (Giant Double Buttercup). One of our best yellow-flowering hardy perennials; flowers large. June and July. 25

SWEET WILLIAM (*Dianthus barbatus*)

**VALERIAN** (Garden Heliotrope). Hardy perennial. Pinnate foliage and panicles of flowers, with odor of heliotrope. 5 feet. June and July.

| | Pkt. | Oz. |
|---|---|---|
| **Red** | $0 10 | $0 50 |
| **White** | 10 | 50 |
| **Mixed** | 05 | 30 |

S. & W. CO.'S MAMMOTH VERBENA

## MAMMOTH VERBENAS

We have been carefully selecting and improving this fine strain of Verbenas for years, and can recommend it as the very best procurable. The trusses and individual flowers are of the largest size, of brilliant colors, free-blooming and of vigorous habit. For best and quickest results seed should be sown early in the house or hotbed, and transplanted to flowering quarters in May. If sown outdoors in May, it blooms from the end of July on. Verbenas are better grown from seed than from cuttings, being more vigorous and not liable to disease.

| | Pkt. | Oz. |
|---|---|---|
| **S. & W. Co.'s Mammoth Defiance.** Scarlet | $0 10 | $2 00 |
| **S. & W. Co.'s Mammoth Blue.** Deep blue | 10 | 2 00 |
| **S. & W. Co.'s Mammoth Pink.** Deep pink | 10 | 2 00 |
| **S. & W. Co.'s Mammoth White.** Pure white | 10 | 2 00 |
| **S. & W. Co.'s Mammoth Mixed.** Finest colors | 10 | 2 00 |
| **COLLECTION. One pkt. each of 4 Mammoth Verbenas,** | | $0 30 |

**MIXED.** This mixture does not have flowers quite so large as our Mammoth strain, but all colors are well represented.

| Pkt. | Oz. |
|---|---|
| $0 05 | $1 00 |

### VARIOUS VERBENAS

**Lemon Verbena** (*Aloysia citriodora*). Every garden should have a few plants of this fragrant favorite. Its pale green, delightfully scented foliage goes well with any flower. Pkt. $0 10

**Erinoides** (Moss Verbena). This lovely variety produces a mass of moss-like foliage, spreading over the ground like a carpet, above which are borne heads of purplish blue and white blossoms in lavish profusion; comes into flower in June, and continues until frost. For beds, baskets or rockeries it is highly desirable. 10

**Venosa** (Hardy Garden Verbena). This variety is largely used for bedding purposes. It is a strong, thrifty grower, about 1 foot high, and covered from early summer until late fall with its bright heliotrope-purple flowers. ¼oz. 20 cts. 05

## Vinca (Madagascar Periwinkle, or Old Maid)

Ornamental, free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out-of-doors in May, or as soon as the ground is warm, continuing until frost; or they may be potted and kept in bloom through the winter; a fine cut-flower, every bud opening when placed in water. 2 feet.

| | Pkt. | Oz. |
|---|---|---|
| **Alba.** Pure white | $0 10 | $1 00 |
| **Rosea.** Rose | 10 | 1 00 |
| **Rosea alba.** White, with rosy eye | 10 | 1 00 |
| **Mixed** | 10 | 75 |

**VERONICA spicata.** An elegant hardy border plant, growing about 1½ feet high, bearing all summer spikes of bright blue flowers, which lengthen with age. Pkt. $0 10

| | |
|---|---|
| **Spicata alba.** White | 10 |
| **Spicata rosea.** Pink | 10 |
| **Spicata, Mixed** | 10 |

## Viola (Tufted Pansies)

While the flowers of Tufted Pansies are not so large as the regular type, yet they bloom so freely that they are superior to Pansies where effect is wanted, the colors being particularly clear and distinct; they also bloom for a longer time. Seed sown in April produces flowering plants in June, and from then on until frost they are a sheet of bloom.

| | Pkt. | Oz. |
|---|---|---|
| **Cornuta, Admiration.** Large; dark blue | $0 25 | |
| " **Purple Queen** | 10 | $3 00 |
| " **Mauve Queen** | 10 | 3 00 |
| " **alba.** White | 10 | 2 50 |
| " **Papilio.** Blue with dark eye | 10 | 2 50 |
| " **Perfection.** Light blue; large-flowered | 10 | 2 50 |
| " **Yellow** | 10 | 3 00 |

**VIOLET** (*Viola odorata*). Single Sweet Violet. Pkt. 10 cts.

**WAHLENBERGIA grandiflora** (Chinese Bellflower; Platycodon). A superb hardy perennial, bearing a profusion of large, bell-shaped flowers from June to October. 2 to 3 feet.

| | Pkt. | Oz. |
|---|---|---|
| **Grandiflora alba.** White | $0 10 | $0 75 |
| " **cærulea plena.** Dark blue | 10 | 75 |
| " **nana (Mariesi).** Dark blue | 10 | 75 |
| " **nana alba.** White; dwarf | 25 | |

GIANT DOUBLE-FLOWERING ZINNIA

## Wallflower

These half-hardy perennial and annual Wallflowers are grown for early spring bedding and are delicious for their fragrance. Perennial sorts should be sown in autumn and carried over in coldframe; annual sorts may be sown indoors in March and will flower the first year from seed.

| | Pkt. |
|---|---|
| **Early Parisian.** Golden, shaded orange-red | $0 10 |
| " **Blood-Red.** Red, orange shaded | 10 |
| " **Golden Gem.** Yellow | 10 |
| " **Finest Mixed** | 10 |
| **Single Perennial, Mixed.** A mixture of all shades of this delightful flower | 10 |
| **Double Perennial, Mixed** | 15 |

**Winter-blooming Wallflower** (*Cheiranthus Kewensis*). A beautiful shade of yellow on opening of flower, gradually changing to orange or purple-violet. Pkt. $0 25

## ZINNIA (Youth and Old Age)

Everyone knows the Zinnia; its ease of culture and satisfactory blooming qualities make it a strong favorite. There has been a decided advance made in the past three years, it being not uncommon to grow them with flowers 6 inches across. The seed may be sown in a hotbed or sunny window and transplanted, or sown later in the open ground. The plants come into flower early in the summer and keep on blooming until hard frost.

### Giant Double-Flowering

This Zinnia, featured also in the novelty section of our catalogue, is a wonderful improvement over the Dwarf Double-flowering for size of flower and general vigor of the plant. Trials of this Zinnia sowed in the open ground in April produced flowers 6 inches in diameter on plants 2 to 2½ feet high. A splendid companion to our Giant Double African Marigold listed on page 57 of this catalogue. If sown in the open ground in April, thin out as soon as the plants are well up, leaving at least 18 inches each way, as they are robust growers and require a large amount of space to attain maximum size.

| | Pkt. | Oz. |
|---|---|---|
| **Tall Giant Double White** | $0 25 | $2 00 |
| **Tall Giant Double Crimson** | 25 | 2 00 |
| **Tall Giant Double Yellow** | 25 | 2 00 |
| **Tall Giant Double Mixed** | 25 | 2 00 |

### Dwarf Double-Flowering

This type of Zinnia, while not so tall as our Giant Double-flowering varieties, offered above, is a very satisfactory type for borders or cutting. Grows about 1½ feet high; flowers perfect.

| | Pkt. | Oz. | | Pkt. | Oz. |
|---|---|---|---|---|---|
| **Crimson** | $0 05 | $0 75 | **Salmon-Rose** | $0 05 | $0 75 |
| **Purple** | 05 | 75 | **Scarlet** | 05 | 75 |
| **Golden** | 05 | 75 | **White** | 05 | 75 |
| **Lemon-Yellow** | 05 | 75 | **Mixed** | 05 | 50 |

**Haageana Perfection.** This variety has been one of the most satisfactory border plants we have had the pleasure of seeing this past season. Seed sown in the open May first came into flower June 30, and continued blooming until frost. The plants are of dwarf, compact growth, 9 to 10 inches high and of the same width through, with fine foliage, and bear a mass of very double flowers about 1½ inches across and of a most unusual range of colors—rose-tipped, canary-yellow, maroon-tipped cream, yellow, wallflower-red and garnet. Should prove excellent for filling baskets, vases, etc. Pkt. 15 cts., 2 pkts. 25 cts.

**Curled and Crested.** Large, double flowers, with petals twisted, curled and crested into the most fantastic and graceful forms. Usual range of colors. Pkt. 10 cts.

**Striped, or Zebra.** Large, double flowers of orange, crimson, pink, yellow, white, etc., striped and blotched with different colors. Mixed colors. Pkt. 10 cts.

### Zinnia, Lilliput

This variety forms a bush about 1 foot high, and is covered with small, very double flowers in profusion.

| | Pkt. | ¼oz. | | Pkt. | ¼oz. |
|---|---|---|---|---|---|
| **Scarlet Gem** | $0 10 | $0 25 | **Orange Gem** | $0 10 | $0 25 |
| **Golden Gem** | 10 | 25 | **White Gem** | 10 | 25 |
| **Lilac Gem** | 10 | 25 | **Finest Mixed** | 10 | 25 |

# Ornamental Grasses

The annual varieties are principally grown for their beautiful flower panicles which when dried are very useful for bouquet work. Perennial varieties are very valuable for borders or massed between shrubs or on the open lawn. Many of the varieties listed below have beautiful variegated foliage and, when planted as indicated above, they are most effective and pleasing.

**Annuals, except where otherwise stated. Sow outside in May, transplant or thin out when large enough to handle. If grasses are cut before they are ripe, they will keep for a long period.**

A bed of Ornamental Grasses

**AGROSTIS nebulosa.** Annual. A very beautiful variety. Pkt. 10 cts.

**Pulchella.** A very striking sort. Pkt. 10 cts.

**ANTHOXANTHUM gracile.** Annual. Useful for edging. Pkt. 10 cts.

**BRIZA compacta.** Very pretty annual. 18 inches. Pkt. 10 cts.

**Geniculata.** Very pretty annual. 18 inches. Pkt. 5 cts., oz. 40c.

**Gracilis.** Very pretty annual for bouquets. 12 inches. Pkt. 5 cts.

**Maxima.** Considered by many to be one of the best varieties for bouquet and dried flowers. Annual. 12 inches. Pkt. 10 cts., oz. 50 cts.

**BROMUS brizaeformis.** Large drooping panicles, useful for bouquets. Annual. 2 feet. Pkt. 10 cts.

**COIX lachryma** (Job's Tears). A strong broad-leaved grass with large shining pearly seeds. Annual. 3 feet. Pkt. 5 cts.

**ERIANTHUS Ravennae.** A hardy perennial grass resembling the Pampas, with beautiful foliage and fine silvery plumes; excellent for lawn specimens. Blooms first year from seed if sown early. Pkt. 10 cts.

**ERAGROSTIS elegans** (Love Grass). Annual. 1 foot. Pkt. 10 cts.

**EULALIA Japonica foliis vittatis.** A very beautiful perennial variety used for forming large clumps. Leaves dark green, striped white. 4 feet. Pkt. 10 cts.

**Zebrina** (Zebra Grass). A very striking variety, very extensively used, where an attractive variegated variety is wanted. 4 feet. Pkt. 10 cts.

**GYNERIUM argenteum** (Pampas Grass). Perennial, with magnificent silvery plumes. 6 feet. Pkt. 10 cts.

**Jubatum.** Panicles silvery rose. Pkt. 10 cts.

**HORDEUM jubatum** (Squirrel Tail Grass). Annual, used for bouquets. 2 feet. Pkt. 10 cts.

**ISOLEPIS gracilis.** Graceful dwarf grass for pots. Pkt. 10c.

**LAGURUS ovatus.** Hardy annual, with silvery gray tufts. 1 foot. Pkt. 10 cts.

**PENNISETUM longistylum.** An annual grass with gracefully, drooping heads. 2 feet. Pkt. 10 cts.

**Ruppellianum.** The foliage is long and slender, gracefully recurved and glossy deep green in color. If sown in March in heat, the plants should bloom by the middle of July, and the silvery plumes, tinted with violet-purple, waving in the sunlight, are exquisitely beautiful; hardy perennial. 3 feet. Pkt. 10 cts.

**STIPA elegantissima.** Perennial. Pkt. 10 cts.

**Pennata** (Feather Grass). With silvery white feathery plumes. Pkt. 10 cts.

**SETARIA macrochaeta.** Drooping plumes of graceful appearance. Annual. Pkt. 10 cts.

**UNIOLA latifolia.** Perennial; very pretty. Pkt. 10 cts.

**ZEA Japonica.** Striped maize. Pkt. 10 cts.

**TALL.** Annual Varieties, Mixed. Pkt. 5 cts.

**DWARF.** Annual Varieties, Mixed. Pkt. 5 cts.

**COLLECTION:** **12 distinct varieties of Ornamental Grasses.....$1 00**
**6 distinct varieties of Ornamental Grasses..... 50**

# Everlasting Flowers

The following list of Everlastings are annuals, except where noted. Sow outside in May and thin out to six inches.

**ACROCLINIUM.** Hardy annual. Good for cutting. Double White, Double Pink, Single Rose and Double Mixed. Each, pkt. 5 cts.

**GLOBE AMARANTH** (Gomphrena). Sometimes called "Bachelor's Buttons." Popular bedding plants; flowers resemble clover heads and can be dried and used in winter bouquets. Orange, Rose, White, Purple and Mixed. Each, pkt. 5 cts., oz. 30 cts.

**HELICHRYSUM** (Straw Flower). One of the best and most popular of the "Everlastings." Very effective double flowers, making a fine display in beds or borders. To produce excellent plants thin out to 2 feet.

**Monstrosum.** Double Yellow, White, Rose, Scarlet and Mixed. Each, pkt. 10 cts.

**RHODANTHE.** Very beautiful, delicate looking "Everlastings," much prized for winter bouquets.

**Maculata.** Single White, Rose and Mixed. Each, pkt. 10 cts.

**STATICE** (Sea Lavender). Splendid hardy perennials, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets. Mixed varieties. Pkt. 10 cts.

**XERANTHEMUM annuum** (Immortelle). Grows about 3 feet high, and can be sown in the open ground early in May, growing readily in any open, sunny position, remaining in bloom from early summer until frost, bearing in abundance. Rose, Purple, White and Mixed. Each, pkt. 10 cts.

# Ornamental Beets

Beets that have no tubers, but with handsome ornamental foliage of very rich colors. Very effective in center of beds, or anywhere in contrast with other plants.

**BRAZILIAN.** Golden-leaved, scarlet-veined and crimson-veined. Pkt. 5 cts., oz. 25 cts.

**DELL'S CRIMSON.** A small, compact-growing variety, with deep bronze-purple foliage. Pkt. 10 cts., oz. 25 cts.

# STAIGREEN LAWN SEED

# How About Your Lawn ?

## 25-Pound versus 14-Pound LAWN SEED

Many low-price Grass Seed mixtures weigh only 14 pounds per bushel. This indicates either a good proportion of chaff or some of the real good varieties in the rough state, not properly cleansed so as to leave only the vital part and less of the chaff or shell.

In other words, so many less seeds to the quart or pound that will germinate and grow real grass.

## Why Not Buy the Re-cleaned Kind?

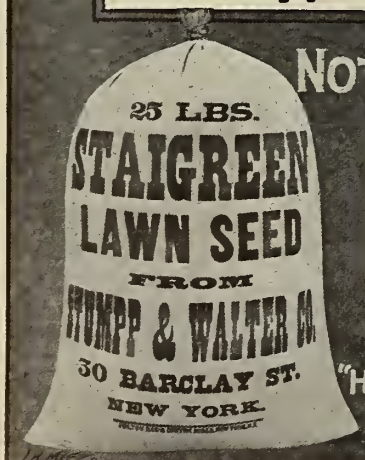
A mixture of grasses weighing 25 pounds per bushel, of high germination and purity, permanent in nature, the varieties carefully proportioned so that they will succeed one another in brightness of foliage, with the result that the lawn, even in its first year, will have a bright, rich green color from early spring until covered by snow.

Stumpp & Walter Co

**One Pound will Sow a Plot 20 x 20 feet**
**Sow 80 Pounds to the Acre**

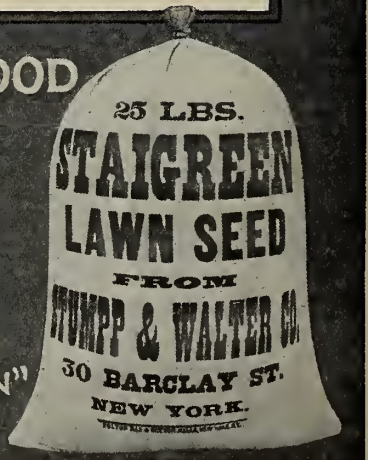
**30 and 32 Barclay St.**
**New York**

## NOT HOW CHEAP, BUT HOW GOOD




| DELIVERED ANYWHERE IN UNITED STATES | | | |
|---|---|---|---|
| Pound | 5 Pounds | 25 Pounds | 100 Pounds |
| 40 cts. | $1.75 | $8.00 | $30.00 |

DELIVERED ANYWHERE IN UNITED STATES




"HOW TO BUILD A PERMANENT LAWN" PAMPHLET FREE IN EVERY BAG

# HIGH-GRADE LAWN SEED

**WEIGHS 22 POUNDS PER BUSHEL**

**Our High-Grade Lawn Seed** is composed of the finest re-cleaned grasses, care being taken to include various varieties of grasses of the highest purity and germination, and is entirely free from weeds and all foreign matter.

The varieties are carefully proportioned so that they will succeed one another and give the lawn that much desired green, velvety appearance throughout the summer. The remarkably heavy demand for our lawn seed this past year proves the quality.

One quart will sow 15 x 15 feet, or 225 square feet; four bushels to the acre—for renovating old lawns, two bushels. **Qt. 25 cts., 4 qts. 85 cts., 8 qts. $1.50, bus. $5, 10 bus. $45.**

## Terrace Sod Lawn Seed

**To Grass a Bank or Terrace.** For each square rod take two quarts of lawn grass seed and mix it thoroughly with 6 cubic feet of good, dry garden loam. Place it in a tub, and add liquid manure, diluted with about two-thirds of water, so as to bring the whole to the consistency of mortar. The slope must be made perfectly smooth, and then well watered, after which the paste should be applied, and made as even and thin as possible.

A special mixture of grasses best suited for sowing on terraces and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out, that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, green turf throughout the season. **Qt. 35 cts., 4 qts. $1, 8 qts. $1.75, bus. (20 lbs.) $6.**

Stumpp & Walter Co.'s Shady Place Lawn Seed

## SHADY PLACE LAWN SEED

There is nothing more annoying in caring for a lawn than the bare, unsightly spots under the trees, shrubs, etc., and invariably all efforts have failed to get the grass to grow in such places; but, by sowing this mixture, the difficulties will be overcome. It is a combination of dwarf-growing varieties which will do well in all shaded places, being found in their natural state in woods and other sheltered spots. **Qt. 35 cts., 4 qts. $1, 8 qts. $1.75, bus. (20 lbs.) $6.**

**Tenth Green of the Arcola Country Club, New Jersey**
Accomplished by the sowing of the proper varieties of grasses in a mixture of seed of known purity and germination, the varieties carefully proportioned to suit climatic and soil conditions

# Grasses for Golf-Courses

When you buy Grass Seed for golf-courses, either for putting-greens, fair-greens, or outlying grounds, great care must be taken to select only such seeds as will do best for the purpose.

**First.**—See that you get the proper varieties, for very often grasses are sometimes used that are not fit to make the proper sod. This means disappointment in appearance, and endless work in trying to rid the greens of such grasses.

**Second.**—The quality of the seed. This should always be bought with the known germination and purity.

**Third.**—If your soil is sandy, clayey, moist or dry, this all makes a difference; and where seeding is done, it is always best to have only such grasses in the mixture as will give the best satisfaction. This information can always be obtained by consulting us.

Our Grass Seed Department is second to none; we always have in great quantities such valuable Grasses as Creeping Bent, Rhode Island Bent, Red Fescue, and all other varieties of Grass Seeds that are generally used on golf-courses, whether for putting-greens, fair-greens, or outlying grounds.

## Putting-Green Mixture

Composed of Creeping Bent, Rhode Island Bent, Red Top Re-cleaned, Fine-leaved Sheep Fescue, all of the very highest purity and germination. If for new work, or where the entire seeding of all greens is required, it would be best to consult us, and have us suggest the formula for the soil and location. **Qt. 30 cts., 4 qts. $1.10, 8 qts. $2, bus. (25 lbs.) $7.50, 10 bus. (250 lbs.) $75.**

## Fair-Green Mixture

The best-balanced, finest selection of Grasses, that will give an even, tough and lasting turf. We can supply a general good mixture that we know will give good satisfaction; but in cases when a lot of seeding is to be done we should like to supply a special formula, according to the requirements of the soil. **Qt. 20 cts., pk. $1.25, bus. (20 lbs.) $4.50, 10 bus. (200 lbs.) $42.50, 50 bus. or over, $4 per bus.**

# GRASS MIXTURES FOR HAY AND PERMANENT PASTURE

For every different kind and condition of soil there are a large number of grasses, either indigenous or introduced, which are especially suitable. Some sorts do best on high ground and in dry weather; others prefer plenty of moisture. Some mature so early and others so late that from the beginning of spring until winter sets in there is no time when one species or another is not at its best. From these considerations, the importance of sowing many varieties for pasture and meadow purposes will be apparent, consisting of the following varieties: Orchard Grass, Meadow Foxtail, Sheep's Fescue, Rhode Island or Creeping Bent, Hard Fescue, Sweet-scented Vernal (True Perennial), Meadow Fescue, English Rye Grass, Italian Rye Grass, Red Top, Timothy, Red and Alsike Clover, blended in proportions which we have found, from actual use, give the most satisfactory results.

On ordinarily fertile soil 80 pounds of this mixture are sufficient to seed an acre, but where the land is poor a larger quantity will be necessary.

**For Hay and Permanent Pasture for Light Soils.**
**For Hay and Permanent Pasture for Medium Soils.**
**For Hay and Permanent Pasture for Heavy Soils.**
**For Orchard and Shady Places.**
**For Hay only.** Specially recommended for large hay crop.
**For Pasture Only.** Will stand close cropping without injury.

**10 lbs. $2.50, 100 lbs. $20**

S. & W. Co.'s Wheelbarrow Grass Seeder

## STEEL DISC SMOOTHING HARROW

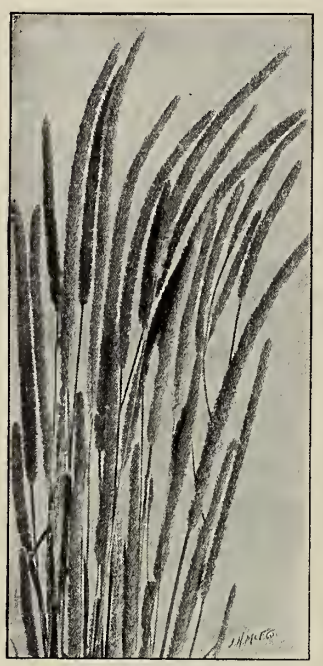
The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches in diameter. Price $22; one-horse size, $21.25.

## S. & W. CO.'S WHEELBARROW GRASS SEEDERS

**(Weight, 45 to 50 pounds.)**

On the market over thirty years and over 200,000 sold. For sowing all kinds of grass seeds broadcast, clover, timothy, alfalfa, Hungarian millet, rape and all small seeds. Also all chaffy seeds like red top, orchard grass, and clean blue grass, bent grass, any quantity per acre desired. They are no experiment, and are guaranteed to do an even, accurate, first-class job of seeding. Price (14 feet sowing area) **$12.**

Japanese or Barnyard Millet (*Panicum Crus-galli*)



Timothy (*Phleum pratense*)

Red Top, Fancy (*Agrostis vulgaris*)

# GENERAL LIST OF GRASSES

| | Lbs. per bus. | Per lb. | 10 lbs. | 100 lbs. |
|---|---|---|---|---|
| **Bermuda Grass** (*Cynodon dactylon*). Valuable in the South for lawns | 36 | $0 90 | $8 00 | $7 00 |
| **Canadian Blue Grass.** Resembles somewhat the Kentucky Blue Grass, but is not of so good quality. It is grown very extensively in Canada and some parts of the United States. It will thrive even on hard clay soils and, having an extended root development, forms a heavy turf. Grows from 1 to 2 feet high | 18 | 20 | 1 75 | 14 00 |
| **Creeping Bent** (True) (*Agrostis stolonifera*). This is our very best grass for putting-greens, being hardy, and the creeping habit of its roots, constantly adding to the size of its plant, forms the closest mat, will stand severe rolling and constant cutting. Should be in all lawn mixtures, but on account of its very high price, is rarely used. Our seed of this very valuable grass is of the highest germination and purity | 20 | 50 | 4 50 | 40 00 |
| **Crested Dog's-tail** (*Cynosurus cristatus*). An excellent grass for hard, dry soils; valuable for lawns in mixture | 30 | 35 | 3 25 | 30 00 |
| **English Rye** (*Lolium perenne*). This grass is considered invaluable for permanent pastures. It produces an abundance of remarkably fine foliage, tillers out close to the ground and soon forms a compact sward. After being cut it grows up in a very short time and remains bright and green throughout the season; it should be used where quick growth is desired, but not entirely where a fine work is required. It is also a good variety for hay if cut when in blossom, as it is then most nutritious; if cut much later, it becomes woody. It flourishes best in situations not too dry or subject to droughts. Sow (if alone) 2½ to 3 bushels per acre | 24 | 12 | 1 00 | 9 00 |
| **English Rye** (*Lolium perenne*). Pacey's Strain. Used the same as English Rye, but the seed is shorter grained, and claimed by some to be more hardy than English Rye | 24 | 15 | 1 35 | 12 00 |
| **Fine-leaved Sheep Fescue** (*Festuca ovina angustifolia*). A very good grass to go in mixtures for lawns. Inclined to burn the first season, but soon recovers and makes a very good turf the second year | 22 | 50 | 4 50 | 40 00 |
| **Hard Fescue** (*Festuca duriuscula*). A good grass for lawns and grazing pastures, where the soil is poor and dry | 20 | 35 | 3 00 | 25 00 |
| **Italian Rye** (*Lolium Italicum*). For quick growth, and to assist other grasses during the first year; used in pasture mixtures in small quantities only | 22 | 12 | 1 00 | 9 00 |
| **Kentucky Blue Grass.** This makes the best, sweetest and most nutritious pasture for all kinds of stock. Kentucky has long been famous for its high-bred horses and its Blue Grass pastures. It is now possible to establish on almost any farm a Blue Grass pasture of greenest verdure which will give very profitable returns. This grass is the first to start up in the spring and remains green until snow flies in the fall. It is very hardy and is uninjured by cold or dry weather, hot sun or trampling of hoofs. The roots are so thick and stout that they form a tough sod. Blue Grass requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. Sometimes called "June Grass." | 20 | 20 | 1 80 | 15 00 |

**Prices on Grass and Clover seed subject to change without notice. Our Grass and Clover seeds are the very finest, purest re-cleaned seeds. We do not carry the cheaper grades.**

GENERAL LIST OF GRASSES, continued

| | Lbs. per bus. | Per lb. | 10 lbs. | 100 lbs. |
|---|---|---|---|---|
| **Meadow Fescue** (*Festuca pratensis*). One of the best grasses for permanent pastures; yields an abundance of fodder of great nutritive value. Much liked by all kinds of stock | 27 | $0 35 | $3 00 | $25 00 |
| **Meadow Foxtail** (*Alopecurus pratensis*). One of the most valuable varieties for permanent pastures. | 10 | 70 | 6 00 | 50 00 |
| **Orchard Grass** (*Dactylis glomerata*). A valuable grass for shaded pastures, and should be in all pasture and hay mixtures | 14 | 40 | 3 00 | 25 00 |
| **Red Fescue** (*Festuca rubra*). New Zealand-grown. A partly creeping, tuft-forming grass; it thrives on all sorts of soil, even on dry, sandy bottoms, and forms a rather thickly covered turf, leaving very little room for weeds to come through. It is also valuable for shady places in lawns, and has has been found to do well under the shade of pine trees | 24 | 35 | 3 00 | 25 00 |
| **Red Top Fancy** (*Agrostis vulgaris*). Also known as English Bent. This grass, while being valuable as a lawn grass, is not as permanent as the preceding two varieties, very often sold as Creeping and Rhode Island Bent by dealers who have not given the proper study to and interest in the different varieties. Our seed weighs 36 lbs. to the measured bushel, and has a purity of 95 per cent, and germination of 97 per cent, the very highest quality | 36 | 40 | 3 75 | 35 00 |
| **Red Top, Unhulled** (*Agrostis vulgaris*). Choice. This seed is the same as the preceding variety, but is the natural seed as harvested, without being machined to remove the hulls, and is recommended for large seedings and mixtures. This seed rarely germinates more than 60 per cent, and our stock is always of the very highest quality | 18 | 25 | 2 00 | 18 00 |
| **Rhode Island Bent** (*Agrostis canina*). Except that this variety is of a more tuft-forming habit, it is very similar to the Creeping Bent. It is very difficult to find true Canina, and very often the ordinary Red Top is used for it. Our experience has been, that to get the very best seed of this variety is to import it from Europe. The seed that we offer has a purity of 70 per cent, and germination of 80 per cent. This is the finest obtainable | 18 | 50 | 4 50 | 40 00 |
| **Rough-stalked Meadow Grass** (*Poa trivialis*). One of the best grasses for hay and permanent pasture mixtures | 26 | 55 | 5 00 | 45 00 |
| **Sheep,** or **English Fescue** (*Festuca ovina*). For good upland or dry pastures, a large portion of this grass should be included in the mixture, especially if it is used for sheep grazing, as it is greatly relished by them. The Tartars generally pitched their tents in proximity to this grass on account of its value to their herds. It is short and dense in growth, and its excellent nutritive qualities more than counterbalance its slight deficiency in quantity. Its fine foliage and compact habit render it desirable for lawn mixtures. Sow (if alone) 2½ bushels per acre | 16 | 40 | 3 50 | 30 00 |
| **Sweet Vernal, True** (*Anthoxanthum odoratum*). For field mixtures | 10 | 70 | 6 50 | 60 00 |
| **Tall Fescue** (*Festuca elatior*). True Rhenish. It is one of the most valuable grasses to go in mixtures for hay | 22 | 40 | 3 50 | 30 00 |
| **Tall Oat Grass** (*Avena elatior*). A valuable grass for hay and permanent pasture mixtures | 14 | 35 | 3 00 | 25 00 |
| **Timothy.** As a crop for hay, Timothy is probably unsurpassed by any other grass. It is greatly relished by all kinds of stock, especially horses. It yields more nutritive matter than any other grass or forage plant. It is not suited for a permanent pasture as it will in the course of a few years, run out. It is, however, well adapted to early spring grazing as it starts up quickly in the spring, and in favorable fall weather can be pastured in the autumn as well. The largest crops of hay are raised on rich land. It is not suited for light, sandy soil so well as some other grasses. The most important point in the growing of Timothy is the selection of good seed. Poor seed, besides containing weed seed, will not all grow. That which does germinate is weak and produces few stalks and seed heads | 45 | 15 | 1 20 | 10 00 |
| **Various-leaved Fescue** (*Festuca heterophylla*). An even, tuft-forming grass; does well on light soils. It is a very good grass for lawns, for which its fine, brush-like bottom leaves makes it exceedingly fit | 15 | 45 | 4 00 | 35 00 |
| **Wood Meadow Grass** (*Poa nemoralis*). This grass is now classed among our good "shaded pasture grasses" and furnishes a fine, succulent and nutritive herbage which is very much relished by cattle. It is splendidly adapted for moist, shady places, and should be included in all mixtures for permanent pastures and lawns for moist soils. It is particularly valuable for lawns overshadowed by trees. It produces a much thicker growth than either *Poa pratensis* or *Poa trivialis*. Sow (if alone) 2 bushels per acre | 20 | 60 | 5 00 | 40 00 |
| **Yellow Oat Grass** (*Avena flavescens*) | 14 | 1 00 | 9 00 | 85 00 |

**SPECIAL NOTICE.** **The Grass Seed problem, whether applied to the farm or lawn, is one that can only be rightly solved when the grower fully takes into consideration four essential details: SEED, SOIL, LOCATION and CLIMATE. Our Lawn Mixtures are prepared with a thorough knowledge of the grasses indigenous to most soils within 1,000 miles of New York. Our STAIGREEN is strictly our best mixture; our GOLF MIXTURES for putting-greens or fair-ways; our TERRACE SOD, SHADY PLACE, and HAY and PERMANENT PASTURE MIXTURES are composed of grasses of the highest germination and purity, and are all prepared by an expert who has made a life-study and a hobby of this particular branch of our business. Advice regarding mixtures for special locations freely given on request.**

All our seeds are carefully examined as to purity and growth in our own laboratory and tested by the leading Seed Testing Stations, such as Zurich (Switzerland), Hamburg (Germany), Paris (France), Washington, D. C.

The percentages of purity and growth are determined before we send out any seeds of any description from our establishment, and, in comparing prices, remember that we will furnish, on application, the percentage of purity and growth. We have only seeds of the very best quality.

## Medium Red Clover

(*Trifolium pratense*)

This is regarded as the most valuable of the Clover family. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop may be harvested for seed, cut for hay, or plowed under to add fertility to the soil. It may be sown either in the spring or fall, and if no other grasses are used, at the rate of from eight to twelve pounds to the acre, according to quality of seed used and condition of the soil. Clover adds greatly to the fertility of the land on which it is grown. It does not exhaust the soil, but enriches it. It pays always to buy the best grade of Clover seed which can be obtained. Even though the first cost is twice as much as cheaper seed, it will be found in the long run that inferior seed is the most expensive, not only on account of less hay or seed being produced from it, but from the fact that one's land becomes infested with weed seeds, which decrease the value of the land on which they are growing. Lb. 35 cts., 10 lbs. $3, 100 lbs. $25.

## Mammoth Red Clover

(*Trifolium pratense perenne*)

Cow Grass, or Pea-Vine Clover. Grows larger and lasts longer than the preceding variety, and by some is considered superior to it for forage. Valuable for reclaiming exhausted land by plowing under as green manure. It is perennial in its character and hardier than the medium. Sow 10 to 15 pounds to the acre. Extra-large, plump seed. Lb. 40 cts., 10 lbs. $3.50, 100 lbs. $32.50.

Medium Red Clover

## White Dutch Clover

(*Trifolium repens*)

The best variety for lawns, as it forms a close herbage and remains green throughout the season. Lb. 45 cts., 10 lbs. $4.25, 100 lbs. $40.

## Alfalfa, or Lucerne

(*Medicago sativa*) **Montana-Grown**

Montana produces a very fine grade of Alfalfa. The seed is usually exceptionally large and of high germination. Montana-grown Alfalfa is extremely hardy, and we prefer it to seed from any other locality. Our seed is obtained in those sections where plants have endured the extreme cold of winter and thrive in high altitudes. For our grade we obtain the plumpest and finest-colored seed grown. This seed is selected from the best seed produced. We shall be glad to send a sample to any one about to purchase. When writing for sample, state quantity of seed you wish to buy. The demand for Alfalfa has been increasing from year to year and our present supply of this grade probably will not nearly fill the orders we will receive for it this season. It is desirable, therefore, that orders be sent in promptly. Sow thirty pounds to acre. Weighs sixty pounds to the bushel. Lb. 30 cts., 10 lbs. $2.75, 100 lbs. $25.

### Alsike, or Swedish Clover

This is one of the hardiest varieties known. It is perennial and does not winter-kill. It will do better on moist land than any other variety of Clover, and is suitable for either hay or pasture. When sown with other grasses, it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with Medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is finer and more leafy than Medium Clover, although it does not grow so high. It is very fine for honey bees, and cattle prefer it to other Clovers. Lb. 35 cts., 10 lbs. $3.25, 100 lbs. $30.

## Crimson or Scarlet Clover

(*Trifolium incarnatum*)

It can be seeded at any time from June to October, at the rate of fifteen to twenty pounds to the acre, and makes the earliest possible spring pasture, blooming the latter part of April or May, and for feeding as hay, should be cut just before coming into full bloom. Sow Crimson Clover at the last working of all crops, like beans, corn, melons, cucumbers, tomatoes and other crops. Lb. 15 cts., 10 lbs. $1.20, 100 lbs. $10.

### White Bokhara or Sweet Clover

(*Melilotus alba*)

This is sown and used quite largely in some sections as a forage and soil-improving crop, and is particularly valuable for thin lands or to sow on hillsides that are liable to wash or gully, and it also gives the inoculation necessary for the best success with alfalfa. For feed or forage it should be cut when quite young, for when it gets old cattle do not relish it, and it is not of very high nutritive value. It is also largely used for sowing for bees.

Farmers are sowing this Clover to quite a considerable extent on light, sandy land, where other Clovers do not take well. They hope, by sowing this Bokhara Clover, to get a good growth to turn under to improve the land, and also to inoculate the soil so that it will produce good crops of Crimson Clover and Alfalfa from seedings of these to follow the Bokhara. Lb. 30 cts., 10 lbs. $2.75, 100 lbs. $25.

### Yellow Bokhara (Biennial)

A productive and popular type of the Sweet Clover, having yellow blossoms instead of white. Lb. 30 cts., 10 lbs. $2.75, 100 lbs. $25.

A part of the 300 acres of Alfalfa on the Walker-Gordon Farm at Plainsboro, N. J. Farmogerm used here for many years.

# To Build Up Worn Soils, Increase Crops and Reduce Fertilizer Expense

The growing of legume crops for soil-enrichment is advocated by Agricultural Experts and Experiment Stations everywhere. The great fertilizer value of legumes depends entirely upon perfect inoculation. You can secure satisfactory results only by the use of Farmogerm inoculation, which has been practically tested for years and its efficiency proven and recognized the world over.

TRADE **FARMOGERM** MARK

## THE STANDARD SEED INOCULATION

It is delivered in bottles ready for use. The seed for ten acres can be perfectly inoculated in ten minutes. Our customers who have used Farmogerm in past years strongly endorse it and we recommend every planter of legume seeds to

Nitrate sacks on the roots of Cowpeas. This fertilizer value is the result of the use of Farmogerm

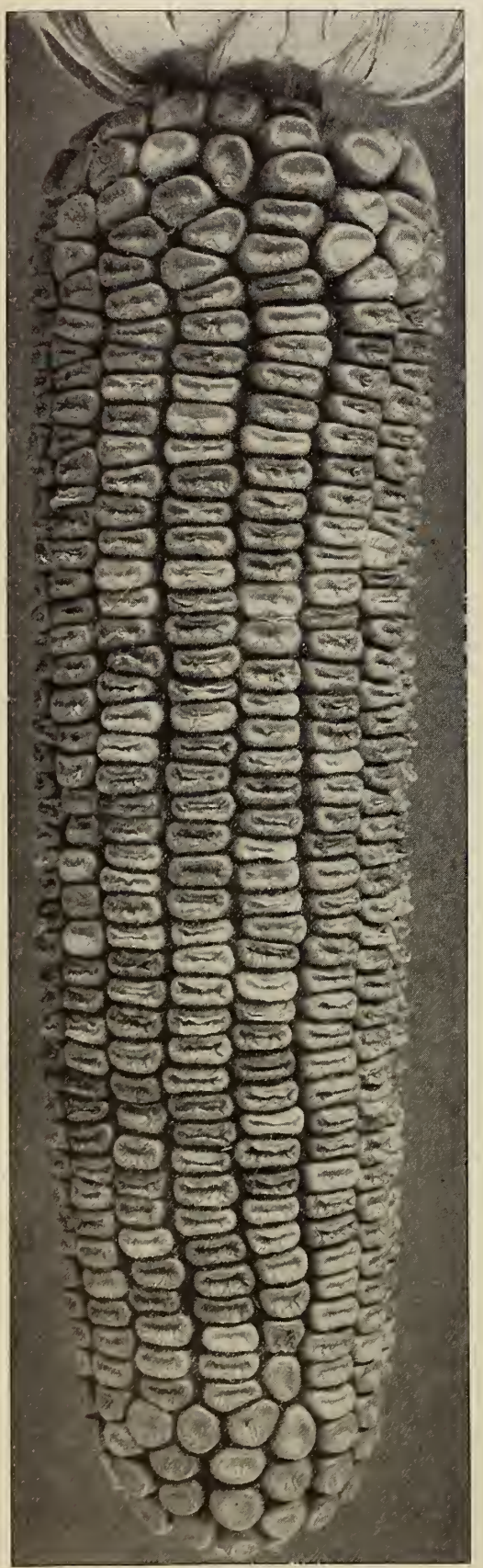
## Use It On

Alfalfa
Peas
Clover
Beans
Cowpeas
Vetch
Soja Beans

Not only will the crops be larger and richer but the soil will be plentifully supplied with nitrates for next year's crops. Further particulars upon application.

| | |
|---|---|
| Regular Farm Size or 5-Acre | $9 00 |
| Farm Trial Size or 1-Acre | 2 00 |
| Garden Size or ¼-acre | 50 |

Inoculation makes a larger, richer crop and improves the soil. Results are certain by using Farmogerm



Golden Eureka Dent Corn

# FIELD CORN

Sow one peck to acre in early May

## New Golden Eureka Dent Corn

This magnificent Corn is a decided improvement on the very popular variety Eureka. It is fully ten days earlier. Ears measure 12 inches in length and cor tain from 18 to 22 rows of beautiful, deep yellow grains. Deep grains and ver small cob. Seventy pounds of ears will yield 60½ pounds of corn. Will yiel 100 bushels to the acre, having done better than this by the originator this pas fall. A very fine variety for ensilage and will produce 25 tons good Corn silag per acre. Selected grains, qt. 25 cts., postpaid, 40 cts.; pk. $1, bus. $2.50, 10-bu lots, $2.25 per bus.

## Longfellow Flint Corn

This beautiful eight-rowed flint often yields two good ears to the stalk. Th ears are very long, sometimes reaching the length of 15 inches. Cobs are smal with kernels of good size. It is safe for planting as far north as Massachusett Our stock of seed is of the best possible selection and has given a yield, this pas season, of over 100 bushels to the acre. Selected stock, qt. 25 cts., postpai 40 cts.; pk. $1, bus. $2.50, 10-bus. lots, $2.25 per bus.

**Wood's Northern White Dent.** The earliest large White Den Corn ripens thoroughly aroun New York and vicinity. Very prolific, often yielding 100 bushels shelled cor to the acre. Ears 12 inches long and 7 or 8 inches in circumference. The kerne are long and the cob is small; ears start 2 to 3 feet from the ground; plant leaf and luxuriant, making fine fodder. Our grower, on Long Island, who raises ou crop of this, the best of all the White Dent Corns, states that it is the best an most profitable Corn he has ever grown. Qt. 20 cts., pk. 80 cts., bus. $2.5 10-bus. lots, $2.25 per bus.

**S. & W. Co.'s White Flint.** We have had many inquiries in the pas for a White Flint, but have never befor been able to offer it, as it has always been a difficult matter to get hold of goo seed. The ears are very long, 12 to 15 inches, of handsome appearance, wit large kernels of a transparent white. The stalks are very leafy and th Corn is also very productive, with usually two or three ears on a stalk. Q 15 cts., pk. 75 cts., bus. $2.50, 10-bus. lots, $2.25 per bus.

**Improved Leaming.** This popular and distinct variety of Yellow Den Corn certainly has, beyond question, reached th grandest success of any Yellow Dent Corn that has ever been brought before th farming public. This Corn husks and shells very easily, and weighs 60 to 6 pounds per measured bushel, and matures in 90 to 120 days. Qt. 15 cts., pk 75 cts., bus. $2; 10-bus. lots, $1.90 per bus.

**Improved Early Horsetooth.** Same as Southern Horsetooth, bu better selected and earlier. Qt. 20 cts bus. $1.75, 10-bus. lots, $1.70 per bus.

**Evergreen Fodder Corn.** For soiling or ensilage. Profitable as gree fodder; cut when green to feed cattle. So broadcast two bushels. In drills 3 feet apart, one bushel per acre. Pk. $1, bus $2.90, 10-bus. lots, $2.80 per bus.

**Pride of the North.** **The very earliest Yellow Dent Field Corn i cultivation, and can be successfully grow farther North than any other Dent variety.** Ripens readily even in Ne England. Matures perfectly in 90 days and is very frequently safe from frost i 75 days. Very-hardy, ears of uniform size; too small for a main crop, but righ size for stock feeding; cob small, kernels set closely on cob and are long an compact. This variety is planted quite largely for early crop to feed stock whil yet green; and is also planted late when larger varieties could not possibly matur before the frosts. Qt. 15 cts., pk. 75 cts., bus. $2.50.

## Pop Corn

There are two distinct types of Pop Corn, Rice and Pearl. The White Rice usually grown for commercial purposes, about four pounds being required to plan an acre. Hardy from Canada south. If desired by mail, add 8 cts. per lb.

**White Pearl.** Smooth-grained ears, 4 to 5 inches long, by ⅞ to 1⅛ inches diameter; good for either family or market use. Lb. 10 cts., 100 lbs. $8.

**White Rice** (Rat-tooth). A very fine white variety; ears 4 to 5 inches in length and 1 to 1½ inches in diameter. Kernel pointed. Lb. 10 cts., 100 lbs. $8.

## Kaffir Corn, Red

Excellent forage for horses and cattle, and excellent food for poultry. Us 5 pounds per acre. Bus. (60 lbs.) $3.75, 100 lbs. $6.

# SOY BEANS

Soy Beans have become an important crop in only a few localities in the United States, but in cases where farmers have learned how to utilize them to best advantage they have proved to be a crop of high value. They are especially valuable for mixing with corn for silage, for the production of hay, and for use as pasture, especially for hogs. They possess an advantage over cowpeas in that the growth is erect, and they are therefore easily harvested. Some of the taller sorts may be harvested with an ordinary grain binder. They are also valuable as a crop for plowing under for green manure, to add humus and nitrogen to the soil. They can also be planted with cowpeas, on account of their erect growth. They support the vines of cowpeas.

During the past year they have been grown with success on many of the farms in New Jersey and New York. Planted the latter part of May in the latitude of New York the Beans are ready for harvesting in 100 days. Planted in rows 2½ feet apart, 6 to 8 plants to the foot of row, requiring three pecks to the acre, they yield fifteen to twenty tons of fodder.

| | Qt. | Pk. | Bus. |
|---|---|---|---|
| **Mammoth Yellow Soy Beans** | $0 20 | $1 25 | $3 50 |
| **Early Green Soy Beans** | 25 | 1 50 | 5 00 |

# CANADA FIELD PEAS

**"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at the cost of millions of dollars."**—Yearbook of the U. S. Department of Agriculture.

The above statement, coming as it does from a reliable source, gives the progressive farmers of this great country something to think about. Grain has been grown year after year on many farms, sapping the life and fertility of the soil. Here is a crop which is not only profitable, but will return to the land the much-needed nitrogen. Peas are second only to Clover in their soil-enriching properties and can be grown under almost any condition of soil or climate. There is always a ready market for Peas, or they can be profitably ground and fed to stock. The vines make rich, nutritious hay. If fed to milch cows, when in a green state, pods, vines and all, the flow of milk will be almost doubled.

Peas are a paying crop and can be profitably planted in many ways.

First.—When sown alone about three bushels are required to the acre. They can be matured and threshed when dry. The yield will vary from 30 to 60 bushels an acre.

Second.—Peas and oats are frequently sown together, using ½ bushels of Peas and 2 bushels of oats to acre. By so doing a double crop can be secured. They can be threshed at one time and readily separated in cleaning.

Third.—They can be sown alone or with oats and fed green. It is surprising the amount of fodder which is produced in this way. If sown together, the Peas should be sown first and plowed under about 4 inches deep; the oats may then be drilled in.

Fourth.—For plowing under when Peas and oats are sown together and each are "in milk," they are nearly equal in value to clover, used in the same way, to enrich the soil.

Qt. 15 cts., pk. 75 cts., bus. $2.60, 10 bus. $2.40 per bus., 00 bus. or over $2.25 per bus.

# COWPEAS

Used for improvement of soils by plowing under; also makes valuable hay, when sown alone or with soy beans, during May, June and July, at the rate of two bushels to acre or one bushel of soy beans and one of Cowpeas, broadcast or in a wheat drill.

**Black Eye.** Large black-eye peas; make a profitable crop for picking the dry peas for sale in our markets during the winter. Qt. 20 cts., pk. $1.25, bus. $3.50, 10 bus. $32.50.

**New Era.** The peas are dull lead-colored, not quite so large as Whippoorwill, but vine is somewhat stronger; earlier than other varieties. Qt. 20 cts., pk. $1.25, bus. $3.50, 10 bus. $32.50.

**Whippoorwill.** An early, bunch-growing Pea; has brown-speckled seed. Qt. 20 cts., pk. $1.25, bus. $3.50, 10 bus. $32.50.

Soy Beans

Sand or Winter Vetch and Oats Sown Together

## SAND or WINTER VETCH

*Vicia villosa*

Sometimes called Hairy Vetch. This is a very valuable forage plant, and is rapidly becoming more popular each year as the farmers of this country are learning more of its great value. It is very hardy, is valuable as a winter cover-crop to prevent leaching, and for forage and fertilizing purposes. It is an annual, but re-sows itself and will come up year after year on the same ground. It succeeds well on nearly all soils and thrives surprisingly on poor, light land, and will endure extremes of drought, heat and cold. It improves the soil, being a great nitrogen-gatherer. The roots bear innumerable nodules or nitrogen-gathering bacteria. These take the nitrogen from the air and restore it to the soil where it is so much needed. It belongs to the pea family, but the vines are much longer and the foliage is more abundant. It may be sown either in the spring or fall with about half a bushel of rye or oats for support. It grows rapidly and is particularly valuable in sections where clover does not thrive. In the North it remains green all winter under the snow, and it is invaluable for early pasturing or soiling. The Department of Agriculture estimates the value of an acre of this Vetch plowed under equal to commercial fertilizer at the rate of from $16 to $40 an acre. When sown in August or September it covers the ground before frost and prevents leaching of the soil during the winter and spring. When sown in April or May it can be cut in July, the second growth affording excellent pasture during the summer. The yield of green fodder is from twelve to twenty tons an acre. This may seem to be an exaggerated statement, but when the amazing stooling propensities of this plant are taken into consideration the yield is readily accounted for. As many as twenty long vines spring from each root. When raised for hay it should be left standing until some seeds have become well formed. Not only does it produce an enormous amount of very valuable feed, but it at the same time restores to the soil a great amount of fertility which is so much needed. 1 to 1½ bushels of seed required to the acre. Weighs sixty pounds per bushel. If sown alone use 1½ bushels to acre, but is best if sown 1 bushel Vetch with ½ bushel oats, as per illustration. Lb. 20 cts., 10 lbs. $1.75, 100 lbs. $15. Bushel (60 lbs.) $9.

## VELVET BEAN (*Dolichos multiflora*)

Largely grown in the South and used as a fertilizing plant for turning under. Both vines and pods are eaten by live-stock, and the Beans can be ground either with or without the pods and fed instead of corn or oats, or can be mixed with them. Pk. $1.50, bus. $5.

## DWARF ESSEX RAPE

The true Dwarf Essex Rape is valuable as a fattening food for pasturing sheep in autumn. It is particularly adapted as a "catch-crop," for it grows best late in the season. In the Northern States it can be sown at any time from May until the end of August, but in the Southern States it should not be sown until September or October, for winter pasture. Its fattening properties are said to be twice as good as clover. Sow ten to twelve pounds to the acre broadcast, or four to five pounds per acre in drills 15 inches apart. Grows vigorously. Lb. 20 cts., 10 lbs. $1.80, 100 lbs. $15.

## SUNFLOWER, MAMMOTH RUSSIAN

Highly valued as an excellent and cheap food for fowls. It is the best egg-producing food known. It can be raised cheaper than corn. Four pounds of seed will plant an acre. Lb. 15 cts., 10 lbs. $1.10, 100 lbs. $10.

## Spring Vetch, or Tares (*Vicia sativa*)

Highly valuable for soiling or for green manuring. Sometimes grown with oats for mowing and feeding to stock. Use 2 or 3 bushels to acre broadcast, or 1 to 2 bushels in drills. Lb. 10 cts. postpaid, 18 cts.; bus. of 60 lbs. $3.75, 100 lbs. $5.50.

## EARLY AMBER CANE

Most valuable for dairy cows. The leading dairy farmers of the Northwest generally regard sugar cane, or sorghum, as the best of all fodder plants today for their purpose. Sow any time from May 15 to July 15, 12 to 15 lbs. per acre, in rows, and cultivate the same as corn. Or, if sown broadcast, use 50 lbs. per acre. Lb. 15 cts., 10 lbs. $1, 100 lbs. $8.

## HUNGARIAN MILLET

For good low grounds on rich soil, this makes even a more valuable crop than German Millet. It is considered equal in nutritious qualities to timothy hay. It is very important, in procuring Hungarian Millet, to get the true seed, as common Millet resembles it very closely, and is frequently found mixed with Hungarian. This lessens both the yield and the value of the crop. Sow from the first of May to the end of July at the rate of 1 bushel per acre. Qt. 15 cts., pk. 75 cts., bus. $2.50.

Field of Storm King Oats

# SEED OATS

For grain, 2½ bushels to the acre; for forage, 3 bushels, or, with Canada Peas, 1 to 1½ bushels

Sold at the standard weight of 32 pounds to the bushel. Several varieties of Oats offered below weigh up to 50 pounds to the measured bushel, but all Oats are purchased and sold at the standard weight of 32 pounds to the bushel.

**Storm King.** An exceptionally fine grade of the Long's Tartar. Kernels are large and plump. The straw is long and stout, and does not easily lodge. Heads are from 8 to 10½ inches in length. Our grower in New Jersey reported a yield of over 100 bushels to the acre. Suitable for all soils. Note size of the grains in illustration above. **1 bus. (32 lbs.) $2, 6-bus. lots or over, $1.90 per bus.; 25-bus. lots or over, $1.75 per bus.**

**Welcome Oats.** One of the heaviest, handsomest and most productive white varieties grown. It stools heavily, with extra-strong, straight straw standing well. Succeeds well in a wide range of climate, and under a great variety of soils and methods of culture. Pk. 50 cts., bus. $1.50, 10 bus. $14, 100 bus. $1.30 per bus.

**Imported Clydesdale Oats.** The most popular White Oat. We offer imported seed weighing 50 lbs. to the bushel. They yield 75 to 100 bushels of Oats to the acre, and double the quantity of straw. Pk. 75 cts., bus. $2.50, 10-bus. lots $2.25 per bus.

**Svalof Victory.** So called on account of their remarkable properties. The panicle is rather small, but dense and rich, with stiff branches; the spikelets are also rather small and short, as a rule, two-grained. The grain is white, sometimes of a slightly reddish shade, of medium size, short and broad, beardless or only slightly bearded. The straw is of medium height, firm and elastic; in fact, in this respect this great Oat is not surpassed by any other Svalöf variety. It ripens medium early. Pk. 75 cts., bus. (32 lbs.) $2.50, 10 bus. $22.50.

---

**Barley.** **Imported Hanua.** A new variety of Barley recently introduced by the U. S. Dept. of Agriculture. It is spoken of as "the great favorite Barley among German and Austrian brewers." It is noted for its earliness and very plump kernels. It is a two-rowed Barley. Our stock is the imported extra-large grain and grown especially for seed purposes. Qt. 25c., pk. $1.25, bus. $3.50.

**Beardless Spring.** Its straw is good for green feed or when cured, as hay. The grain in the hull is excellent poultry-feed and with the hull removed is used in the household. It is a quick-growing crop and very nutritious. Sow broadcast 1½ to 2 bushels to the acre from May 15 to July 1. Our seed stock is carefully selected and grown especially for us in Genesee County, New York. Makes better straw than the bearded, and will yield 50 bushels of grain to the acre. Qt. 20 cts., pk. 75 cts., bus. $2.

**Buckwheat.** **New Japanese.** This is a superior variety and more prolific, and yields double the weight per acre of other sorts. The grains are nearly twice as large as those of Silver Hull, and of fine color. This variety is always in demand, millers preferring it to all other sorts, and it makes the finest flour. Sow about the middle of June, broadcast, 3 pecks to the acre. Pk. 60 cts., bus. $2.

**Japanese Barnyard Millet.** This wonderful Millet yields possibly more fodder than any other forage plant that requires so little to sow an acre. Frequently as high as 12 tons of green food has been obtained from an acre. It is somewhat coarse in texture, growing sometimes as high as 8 feet; it is, however, ideal for silo or hay purposes; if sown early in May, it may be cut twice in one season. It branches out at the roots, and more than 12 lbs. per acre broadcast cannot be sown to advantage. Sow anywhere from May 1 to June 15. Lb. 15 cts., 10 lbs. $1, 100 lbs. $9.

**Spring Wheat.** A desirable crop to sow where fall-sown wheat has been killed by severe winter; the grain is very hard and of excellent milling quality. Macaroni is made from this variety. Our stock is grown in the extreme Northwest and is very fine.

**Saskatchewan Fife.** This is the favorite sort in this locality, and is used on account of its prolific, vigorous growth and early qualities. It often produces 50 bushels per acre. Sow in April or May, 1½ to 2 bushels per acre, broadcast or in drills. Qt. 15 cts., pk. 65 cts., bus. $2.50.

**Spring Rye.** Used as a catch crop to sow where winter grain has failed. Pk. 75 cts., bus. $2.25, 5 bus. and over, $2 per bus.

# NEW AND CHOICE CANNAS

Dormant Canna roots may be started indoors during March or April, but should not be set out until the weather is settled and the ground warm, usually May or June in this latitude. When planting dormant roots, do not set too deep. The eye should show a little through the ground. Plant in good, rich garden soil mixed with one-half of old, rotted stable manure. Set them about 18 inches apart each way. Water sparingly the first two weeks after planting; when growing freely, water liberally.

Gladioflora, the Gladiolus-flowered Canna

**Firebird.** A clear, glistening scarlet; even better than King Humbert, but with green foliage. This is, by all means, the very best red-flowered, green-leaved Canna today. The flowers are borne in immense trusses, on tall stalks well above the leaves. They are of splendid form, round and shapely, the petals measuring 2½ inches and over across, and the color is a clear glistening scarlet without any streaks, spots or blotches. 60 cts. each, $6 per doz., $45 per 100.

**Gladioflora.** Remarkable on account of the unusual shape of its flowers, which look like a gladiolus; crimson, changing to carmine-rose, with an irregular edge of gold. The bright, firm, well-formed blooms show up attractively above the neat green foliage. Height 3½ feet. 15 cts. each, $1.25 per doz., $8 per 100.

**Gustav Gumpper.** The finest yellow bedding Canna; flowers of good size are held well above the foliage, the fine trusses always clean-looking; in habit of growth very uniform; color a rich golden yellow shade that has been missing heretofore and which can be seen as far as the eye will carry. Height 3½ to 4 feet. 15 cts. each, $1.50 per doz., $10 per 100.

**Hungaria.** The ideal pink bedder. Flowers large, in good trusses; color not unlike that of Paul Neyron rose. One of the best of the newer introductions. Height 3½ feet. 25 cts. each, $2.50 per doz., $20 per 100.

**Mrs. Alfred F. Conard.** A splendid new Canna. Its exquisite salmon-pink flowers are of largest size, in erect and abundantly furnished heads, so freely produced as to keep a superb showing for months above the rich green foliage. Grows 4 feet high. 25 cts. each, $2.50 per doz., $20 per 100.

**Mrs. Carl Kelsey.** Grows 6 to 7 feet high, with luxuriant foliage—green with a narrow edge of purple; erect, full heads of enormous flowers. The color is an orange-scarlet, flaked and striped with golden yellow, and the petals are wavy and edged. 15 cts. each, $1.25 per doz., $8 per 100.

**COLLECTION: One each of six varieties, $1**

## Six Good Standard Sorts

**Alsace.** A beautiful creamy white variety used very extensively for contrasting red- and pink-flowering sorts. Height 4 feet.

**Express.** Scarlet-crimson. Its dwarf habit and large flower commend it very strongly to all those who would have an excellent bedding or edging variety; it is guaranteed to be well up to expectations. Fine for planting in front of taller-growing sorts. Height 2½ feet.

**Gladiator.** Green-leaved. A very showy bedding Canna, of medium height, with large flowers of brassy yellow, thickly speckled with dull red. The long center petals and lower petal are solid dark red, making a most striking contrast to the predominating yellow. It blooms early and keeps up a continuous succession of flowers all summer. Height, 3 feet.

**King Humbert.** Of superlative beauty and by far the finest of all bronze-leaved Cannas. The enormous trusses are made up of flowers that measure 6 inches across, and are a rich salmon-scarlet, distinctly and numerously flecked with deep crimson markings. It is a free bloomer, and with its rich, coppery bronze, massive foliage, it produces an effect both bold and striking. Height 5 feet.

**Richard Wallace.** A magnificent large yellow variety; green, well-shaped foliage, forming a very impressive plant. Grows about 5 feet high.

**Venus.** Gay, rosy pink with a mottled border of creamy yellow. It blooms splendidly, with heads erect and flowers bright, because the old ones drop off as fast as the new ones come. Green foliage. Height, 4 feet.

**Price of any of the above six varieties, 15 cts. each, $1.25 per doz., $8 per 100**

## Giant-Flowering Purple-Foliaged Canna, Wyoming

This is one of the most majestic Cannas. Blossoms, orange-colored, true orchid-shape, with large, rounded petals that flap and flutter in the breeze like glistening flags. Height, 7 feet. 20 cts. each, $2 per doz., $12 per 100.

# GENERAL LIST, LARGE-FLOWERING CANNAS

The following varieties have been chosen from a list of almost seventy-five varieties, and are in every way the best sorts.

### Yellow-flowering Cannas

**Austria.** Pure canary-yellow; large, open flowers with reddish dots in center of the two inside petals. Height, 5 feet.

**Dr. Nansen.** The really best dwarf yellow Canna there is. A constant and abundant bloomer. Height 2½ feet.

### Red- and Yellow-flowering

**Allemania.** An improved Italia, with more numerous flowers, of immense size. Outer petals scarlet, with broad yellow border; inside scarlet and dark red, one of the best of the giant, or orchid-flowered section. Height, 5 to 6 feet.

**Indiana.** Glistening golden orange, daintily marked and striped red. Single blossoms often measure 7 inches across. Height 5 feet.

**Queen Charlotte.** One of the finest of the gilt-edge sorts. Large trusses and large flowers of blood-red petals, broadly banded with bright canary-yellow. Handsome, deep bluish green foliage. Exceedingly decorative. Height, 4 feet.

**Mme. Crozy.** All things considered, still one of the best for bedding. A constant, free and reliable bloomer with large trusses set well above the foliage. Flowers large, bright orange-scarlet, lightly bordered with yellow. Bright green, massive foliage. Height, 4 feet.

**Niagara.** We consider this the best of the low-growing variegated Cannas. Great, handsome trusses; broad, thick, durable petals; rich deep crimson, with a wide, irregular border of deep golden yellow. An excellent grower. Green foliage. Height, 3 feet.

Cannas, Salvia and Dusty Miller

### Bronze-Foliaged Varieties

**Musafolia.** This is the finest foliage Canna yet seen, with enormous musa-like leaves 3x5 feet high, of a dark bronze-tinged green, the edges of the leaves being beautifully banded with bronze-purple. In size and beauty of foliage it is a revelation, and makes a clump, or single specimen plant for the lawn which no other foliage plant can approach. Attains a height of 8 feet, beautiful and symmetrical at every stage of growth.

**Brandywine.** Thoroughly handsome all season through. It has a luxurious growth of very dark foliage and is heavily topped with a magnificent display of brilliant red flowers. Height, 3½ feet.

**Chautauqua.** Flowers pure, rich scarlet, intensely vivid; luxuriant, tropical foliage, prettily bronzed. Especially valuable for massing. Height, 4 feet.

**Egandale.** A fine bronze-leaved variety; pretty cherry-red flowers borne well above the foliage; handsome and distinct. Height, 4 feet.

**Mrs. George A. Strohlein.** Flowers deep amaranth-red; large, bronze foliage. Height, 6 feet.

**President Meyer.** Handsome bronze and sepia foliage; flowers large, in wide trusses; cherry-carmine. Height, 6 feet.

**Robusta.** Probably the largest-growing Canna in cultivation. If planted in rich, deep soil it will attain 7 to 9 feet in height. Foliage very large and broad, color rich metallic bronze green. Certainly the best Canna where a tropical effect is desired. Height, 6 feet.

### Pink-Flowering Varieties

**Mlle. Berat.** 4 to 5 feet. Strong grower, with dark pink flowers; one of the best.

**Rosemawr.** Extra-fine, large-flowering, dark rose-colored variety; a fine bedder.

**Wawa.** Soft, delicate pink; very free flowering. Height, 4 feet.

### Crimson- and Scarlet-Flowering Varieties

**Black Warrior.** A very dark crimson, claimed by the originator, to be the darkest known variety. Height, 4 feet.

**Charles Henderson.** The standard of excellence in crimson Cannas. Height, 4 feet.

**Crimson Bedder.** Similar to Charles Henderson.

**Louisiana.** New American orchid-flowered, strong, vigorous-growing variety, producing a dense mass of glossy green foliage and vivid scarlet flowers, often measuring 7 inches across. Imagine a plant with four to five main stems, each one crowned with thirty to forty flowers open at one time! The effect is gorgeous and indescribable. Height 7 feet.

**Pres. McKinley.** One of the very best Cannas for bedding; luxuriant in foliage and dwarf in habit. The trusses are large and numerous and the flowers large, brilliant crimson, shaded with scarlet; showy and striking. A very majestic Canna. Height, 3 feet.

**Pennsylvania.** The flowers are often 7 to 8 inches across, with petals 2¼ inches broad, of fine, brilliant red. A most impressive Canna for massing. Height, 6 feet.

**Red Cross.** Large flowers, shaded dark red. Height, 5 feet.

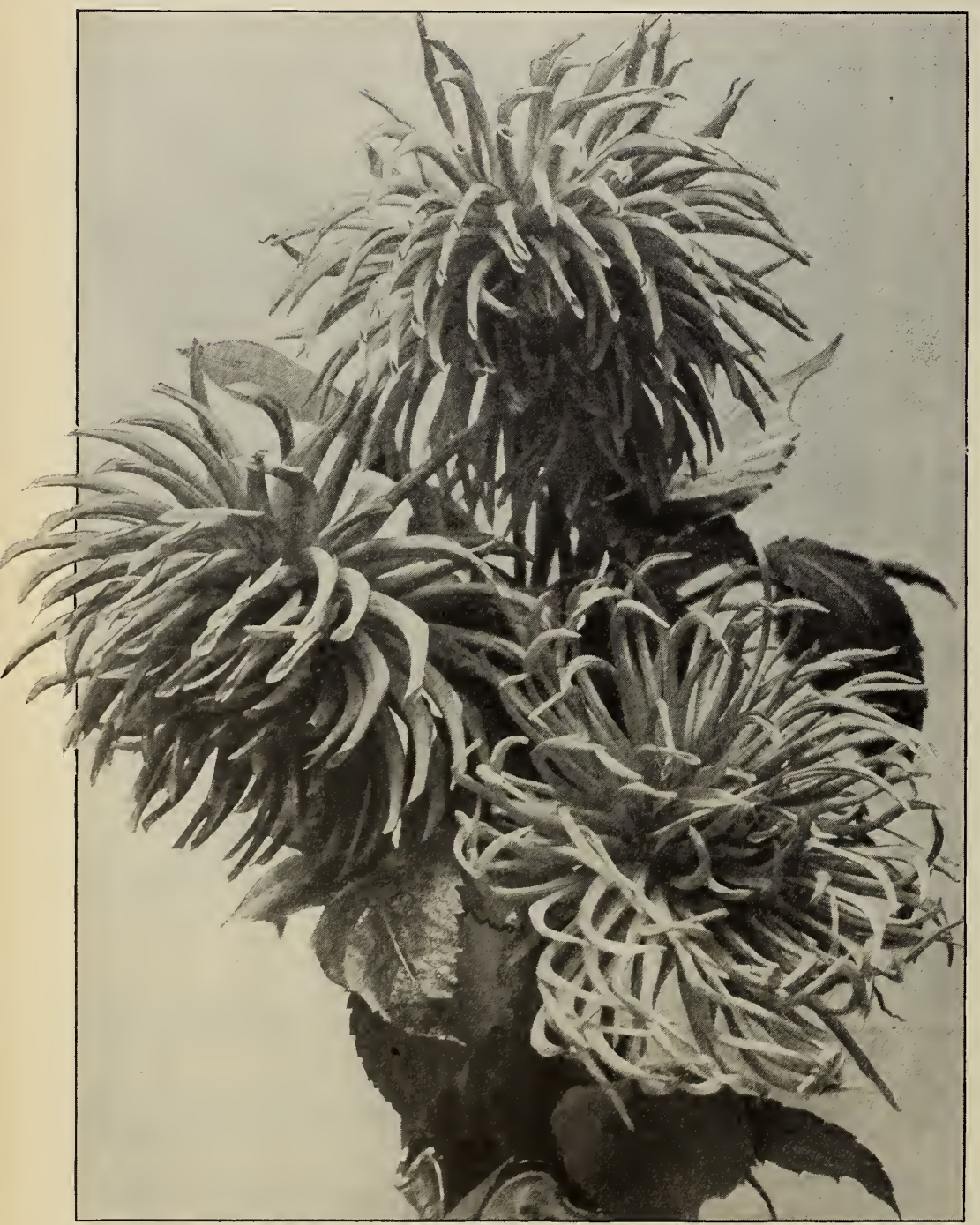
**Wm. Bofinger.** The brightest and richest scarlet. Height, 5 feet.

**N. B.—Remember our stock is strictly extra-strong roots. Price: Roots of all Cannas in the above General List, 10 cts. each, 75 cts. per doz., $5 per 100**

# NOVELTY CACTUS DAHLIAS

The following six varieties of Novelty Cactus Dahlias, introduced by James Stredwick & Sons, England, are worthy of highest commendation. For twelve successive years this firm has captured the prize for the best eighteen varieties, six blooms of each. The wonderful improvement in this splendid type of Dahlias warrants all exhibitors in this country to give all these novelties a trial.

**Green Plants, delivered during May, 1915, 75 cts. each, $7.50 per doz. Collection: One plant each of the six varieties, $4**



George Schofield Dahlia

## John Riding

The plants are particularly sturdy, healthy growers, and produce enormous blooms of splendid incurved and interlacing form. Its exceptional size, perfect form, great depth, and deep, rich crimson places it in the front rank. First-class Certificate, National Dahlia Society; Award of Merit, Royal Horticultural Society.

## Mrs. Henry Randle

A model Dahlia; plants healthy, having an upright habit of growth, the flowers being carried erect, well clear of any foliage. The blooms are of medium size and prettily incurved; color pale cream, quickly changing to a lovely rose-tint, and tipped creamy white. One of the best all-round Cactus Dahlias. First-class Certificate, National Dahlia Society; Award of Merit, Royal Horticultural Society.

## George Schofield

A medium-sized flower, of perfect form, the narrow florets being partially whorled and very incurved. The color is beautiful, yellow in center deepening to apricot, which again lightens to white at extreme tips. First-class Certificate, National Dahlia Society.

## Nantwich

With this variety the habit is a great feature, the growth being upright and flower-stem particularly strong; blooms slightly incurved. The florets are unusually bold in texture. Color light bronzy orange, somewhat deeper in center. First-class certificate National Dahlia Society; Award of Merit, Royal Horticultural Society.

## Pegasus

Grand color, white at base to pink at tips, thickly striped and speckled with vermilion. Flowers of good Cactus form, produced early in the season on long stems. First-class Certificate, National Dahlia Society, Award of Merit Royal Horticultural society.

## Scorpion

The blooms are of medium size almost globular; clear light yellow with florets so incurved and interlaced as to almost meet in the center. A favorite with several specialists and also with us

GREEN PLANTS, for delivery during May, 1915..... 75 cts. each, $7.50 per doz.

**COLLECTIONS:** One each of the 6 varieties, 6 plants..... $4 00
Three each of the 6 varieties, 18 plants..... $10 00

# GENERAL LIST OF BEST CACTUS DAHLIAS

While we realize that there are a great many more varieties of Cactus Dahlia than we offer, those in the list given below are among the best of recent introductions. We supply Dahlias in strong roots or tubers, except where plants are mentioned. The roots are ready from February 1 on, until our stock becomes exhausted, after which time we furnish plants at the same price as roots. Plants flower as well as roots. Dahlia plants are ready in May, and may be set out up to July.

**Arthur Pickard.** This variety continues to head our list as one of the finest all-round sorts we know of. The color is a very light shade of pinkish salmon, with lighter tips and base. 35 cts. each, $3.50 per doz.

**Empress.** This is a huge Cactus, the flowers being both deep and massive, very incurved in form, and with a perfect everlasting center. The color is a striking shade of purplish crimson, but at the base the petals are white, which produces a more or less decided light disc around the unopened center petals. 50 cts. each, $5 per doz.

**Frederick Wenham.** One of the largest Cactus Dahlias yet raised, the flowers having petals of extreme length and narrow throughout. In form the flowers are partially incurved, but the petals are irregularly whorled and twisted, giving the flower a most graceful appearance. Color, warm fawn-pink, with soft salmon at the center. 50 cts. each, $5 per doz.

**Golden Eagle.** Even in an unusually good set of novelties, this variety stood out as a flower possessing extra merit. Color, bright yellow with suffusions of rose and fawn. 35 cts. each, $3.50 per doz.

**Golden Wave.** Color a rich deep pure yellow, the flowers being large and florets extraordinarily numerous, the centers remaining perfect till long after the blooms are in their prime. The plants are robust, healthy growers; flower-stems long and strong. A Dahlia that has come to stay and one likely to supersede all existing yellows. 50 cts. each, $5 per doz.

**Gwendoline Tucker.** One of the finest varieties which will be much in demand for many years. The flowers are of the largest size, with petals gracefully incurved and abundant, forming a flower of great depth and beauty. The color is a pale flesh-pink, nearly white in the center. The habit is very vigorous and strong, the long, stiff, upright growths generally reaching a height of 5 feet and over. The flowers are always good. Roots 50 cts. each, $5 per doz.

**Indomitable.** A veritable champion for exhibition, having produced some of the finest bunches shown for the past two years. The color is best described as a mauve-lilac, the tips of the florets being of lighter coloring. 35c. ea., $3.50 per doz.

**Iolanthe.** Undoubtedly a capital Dahlia for any purpose. Color, deep coral-red, every developed floret being distinctly tipped with gold, as are also the central unopened florets. 35 cts. each, $3.50 per doz.

**Johannesburg.** A monster, yet a sterling good Cactus; flowers of surprising size with perfect centers and on long, strong stems. The color is bright gold, which in the sunlight has a glittering golden sheen. 35 cts. each, $3.50 per doz.

**Libelle.** A distinct, rich, pleasing purple; petals incurved; splendid in any collection. 35 cts. each, $3.50 per doz.

**Marguerite Bouchon.** Few Dahlias have been more favorably commented on at Dahlia shows than this sterling variety. Quite the largest pink Cactus Dahlia known. Petals long and slender, the color a beautiful shade of light pink, with lighter center. Green plants, 75 cts. each, $7.50 per doz.

**Miss Stredwick.** The color is truly beautiful—soft yellow at base quickly changing to a lovely tint of deep pink, with a lighter shade at the tips. The form is excellent and center perfect. Plants clean and healthy, and flower-stems good. 50 cts. each, $5 per doz.

**Mrs. Douglas Fleming.** The finest white Cactus yet raised, producing flowers freely during the entire season. For exhibition this variety is an absolute necessity. 50 cts. each, $5 per doz.

**Mrs. Stephens.** Color is decidedly unique, being a pale primrose. The foliage is long and graceful. It flowers early and remains in form throughout the season. 50 cts. each, $5 per doz.

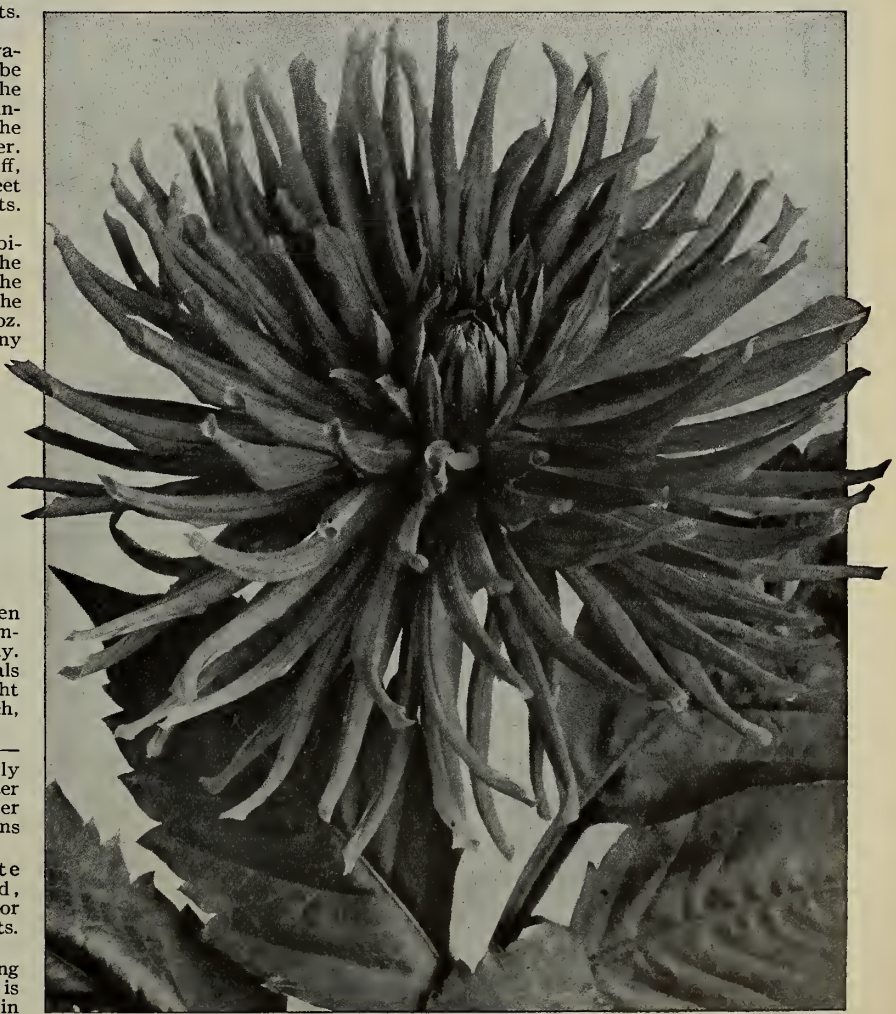
**New York.** The largest of our new varieties and the term "massive" is not too strong to describe its general appearance. Color orange-yellow in the center, shading off to deep bronzy salmon. 50 cts. each, $5 per doz.

**Olympic.** A grand flower of deep, rich crimson and massive proportions, being exceptionally incurved. For exhibition this will prove a valuable addition. 50 cts. each, $5 per doz.

**Red Admiral.** One of the most brilliant Dahlias in existence, the color being a rich, fiery scarlet. Blooms are of largest size, full in center, and of the best possible exhibition type. The plants are free and of upright growth, and produce quantities of large flowers with ease. 50 cts. each, $5 per doz.

**Sweetbriar.** Everyone who saw Sweetbriar at the exhibitions was charmed with its exquisite pink coloring and splendid stem, and unanimously voted it first place in the garden Cactus section. A coming favorite and we anticipate a big demand. 25 cts. each, $2.50 per doz.

**Turtle Dove.** A very prettily colored Cactus, the lower portion of the petal being scarlet, but this gradually changes to white at about midway up the petal. The flowers are of fair size and good incurved form, the plants being far more robust than is usual with fancy varieties. This is the best bicolored Cactus we have ever offered, keeping true to color in every instance. 50 cts. each, $5 per doz.



Cactus Dahlia, Turtle Dove

# SHOW and FANCY DAHLIAS

**Agent.** Delicate, soft pink; very fine for cutting.
**Arabella.** One of the loveliest of this section. Primrose, lightly suffused pink, tipped bright rose; free bloomer.
**A. Pefferhorn.** Rosy crimson; very fine.
**Chas. Lanier.** Very large; yellow-amber, shaded buff; strong, vigorous plant; very floriferous.
**Crimson Globe.** Very large, and round; crimson; full center.
**Emily.** Shades of lavender and white; very fine.
**John Walker.** Pure white; large flower with a full high center.
**Lemon Beauty.** Very large, full, rounded form; a beautiful shade of lemon-yellow; very fine as a cut-flower.
**Queen Victoria.** Deep yellow; finely quilled.
**Red Hussar.** Intense scarlet-crimson.
**Fern-leaved Beauty.** White, striped deep crimson; fern-like foliage which is very beautiful.
**Olympia.** Flowers of immense size; color a deep rose-pink, striped crimson.
**Professor Mansfield.** Flowers very large; golden yellow, tipped white, sometimes a golden yellow, tipped red.
**Progress.** A magnificent flower; clear, soft rosy lake, beautifully penciled and spotted crimson.
**Storm King.** One of the finest white Show Dahlias; very free bloomer; of ideal habit.

**25 cts. each, $2.50 per doz., $18 per 100**
**COLLECTION: One each, 15 varieties of Show and Fancy Dahlias .....$3**

# POMPON DAHLIAS

**Allie Mourey.** Light pink, tipped deep pink; blooms very profusely.
**Guiding Star.** Pure white; a great favorite; flowers on long stems.
**Klein Domitea.** Salmon-buff; very profuse in bloom, on long stems.
**Little Beauty.** Delicate shrimp-pink; quilled petals. Well named.
**Red Indian.** Deep coral-red; handsome flowers on long stems.
**Snowclad.** Finest pure white Pompon, borne profusely on long stems.

**20 cts. each, $2 per doz.**
**COLLECTION: One each, 6 varieties of Pompon Dahlias, as above.....$1**

Show Dahlia, John Walker

Hortulanus Fiet Dahlia

# NOVELTY DECORATIVE DAHLIAS

**America.** Orange and apricot; large flowers, borne on long, stiff stems. Plant extra strong and vigorous. First-class Certificate, Amsterdam and Haarlem. Strong plants, 75 cts. each, $7.50 per doz.

**Great Britain.** Clear mauve, reminding one of the soft tints seen in the orchids; large flowers. First-class Certificate, Amsterdam and Haarlem. Strong plants, 75 cts. each, $7.50 per doz.

**Hortulanus Fiet.** Salmon, yellow center; the largest of the Decorative class; an acquisition for the exhibition table. First-class Certificate, Amsterdam. Certificate of Merit, Haarlem. Strong plants, 75 cts. each, $7.50 per doz.

**Alice Roosevelt.** A beautiful, clear ivory-white, shaded lilac. The flowers are borne on long stems and are extra fine for cutting. Free and flowering early. Strong plants, 35 cts. each, $3.50 per doz.

**Hortulanus Witte.** Pure white flowers of extra-large size. First-class Certificate. A variety that we can recommend with every confidence. Strong plants, 35 cts. each, $3.50 per doz.

**Mrs. Fleers.** A perfect combination of shades of bright red and rose, exceedingly attractive. Flowers on long stems, fine for cutting. First-class Certificate. Strong plants, 35 cts. each, $3.50 per doz.

**Princess Juliana.** A wonderful white Decorative Dahlia; plants covered with blooms from early until late; extremely long stems, and flowers carried erect; medium in size; the very best for decorative work. Strong plants, 35 cts. each, $3.50 per doz.

# TEN GRAND DECORATIVE DAHLIAS

The following ten varieties have proven from our trials to be of unusual merit. We can supply roots, except where noted, up to within a reasonable season, of all varieties; but as the stocks of these grand ten sorts are limited, we may be obliged to send plants. Our customers will be notified if unable to send roots on receipt of orders.

**AUGUST NONIN.** Clear scarlet; large and superb flowers borne abundantly above the foliage; a very pleasing sort. 35 cts. each, $3.50 per doz.

**BELOIT.** Very large flowers, borne on stems 18 to 20 inches long, well above the foliage. They are full-double, of splendid form and a rich purplish garnet. Green plants, 50 cts. each, $5 per doz.

**DELICE.** This, without doubt, is the finest pink Decorative Dahlia. In form, excellent. In type, the ideal. In coloring, superbly delicate and appeals to the sight at once, being a bright pink suffused with a deeper shade. 30 cts. each, $3 per doz.

**KAISERIN AUGUSTA VICTORIA.** Pure white flowers borne in great profusion on erect, stout stems, fully 18 inches long, well above the foliage. The immense, perfect flowers can be kept in bloom until Thanksgiving. One of the most valuable Dahlias, growing about 30 inches high, and not requiring support of any kind. 35 cts. each, $3.50 per doz.

**JEANNE CHARMET.** A very excellent sort; very large flowers carried up and out on very long stems. Shade of pink, deeper at the edges of the petals and a very light shade at the center of the flower. A perfect mass of color. 35 cts. each, $3.50 per doz.

**LE GRAND MANITOU.** The first variegated Dahlia of the Decorative type. The flowers are from 5 to 6 inches across, the ground-color being white, prettily spotted, striped, blotched and suffused with reddish violet. 35 cts. each, $3.50 per doz.

**MME. VICTOR VASSIER.** This is the grandest sulphur-yellow Dahlia yet introduced. The flowers are very large, bold, free, fine of form; a grand exhibition variety; one that was largely exhibited this past fall. 50 cts. each, $5 per doz.

**PAPA CHARMET.** Rich, deep morocco-red with bright garnet shadings; the finest dark Decorative Dahlia yet introduced. 50 cts. each, $5 per doz.

**PERLE DE LYON.** An excellent white for cut-flower purposes; good-sized flowers held erect on long, stiff stems. 35 cts. each, $3.50 per doz.

**VIRGINIA MAULE.** White, delicately suffused shrimp-pink; strong, vigorous grower; flowers borne on long stems well above foliage; of ideal form. 35 cts. each, $3.50 per doz.

Souvenir de Gustave Douzon Dahlia

Decorative Dahlia, Le Grand Manitou

# STANDARD DECORATIVE DAHLIAS

**Admiral Dewey.** Brilliant imperial purple; finest form.
**Beauty of Brentwood.** Very fine; plum, striped maroon.
**Black Beauty.** Large; dark, velvety maroon; distinct form.
**Blue Oban.** The nearest approach to blue found in Dahlias.
**Catherine Duer.** Bright, iridescent crimson-scarlet.
**Clifford W. Bruton.** Bright golden yellow.
**Denver.** Large; yellow, shading to red toward the tips of the petals.
**Frank L. Bassett.** Bright royal purple, shading to blue.
**Henry Patrick.** A superb pure white Dahlia of large size.
**Lyndhurst.** One of the best bright scarlets.
**Jack Rose.** A rich shade of crimson; very fine for cutting.
**John Elitch.** Very large; deep crimson, richly shaded.
**Lord Penn.** Pale lilac; strong grower and profuse bloomer.
**Miss Minnie McCullough.** Soft yellow overlaid with bronze.
**Maid of Kent.** Cherry-red, tipped white, sometimes a solid color.
**Mrs. Chas. Turner.** Pure yellow; a strong grower and profuse bloomer of immense size.
**Mrs. Winters.** Very large; finely formed; pure snow-white.
**Mrs. Keith.** Soft salmon-pink; large and fine.
**Minos.** Velvety maroon; extra fine and free.
**Sylvia.** A superb cut-flower Dahlia; outer edge of petals a soft pink, shading lighter toward the center.

**25 cts. each, $2.50 per doz., $18 per 100**

**COLLECTION: One each, 20 varieties ..... $4 00**

# GRAND GIANT DAHLIAS

**SOUVENIR DE GUSTAVE DOUZON.** A Dahlia grown very extensively the past two seasons. An immense flower; color a beautiful orange-red; a very profuse bloomer and an unbeatable exhibition sort. Where care is taken in the cultivation, this Dahlia will easily produce blooms 9 inches across.

**GIGANTEA.** Extremely large, as the name would suggest; gigantic and massive in form, with short, broad petals, producing flowers frequently over 6 inches in diameter. The color is a pleasing shade of creamy white. This variety is very distinct in its class.

**LE COLOSSE.** Well named, the flowers being of colossal size. A very early and free bloomer. Bright carmine-scarlet.

**YELLOW DUKE.** A grand Decorative Dahlia of immense size. Pure canary-yellow flowers measuring 6 to 7 inches in diameter.

**30 cts. each, $3 per doz., $20 per 100**

# NOVELTY PEONY-FLOWERED DAHLIAS

**Avalanche.** Pure white; the finest white Peony-flowered Dahlia so far introduced. Flower is of large size; a profuse bloomer.

**Basalt.** Pure deep pink; an enormous flower with four rows of petals, of even color throughout; a strong grower, carrying the flowers on good stems.

**Chantenay.** Color similar to the well-known Chantenay Rose; blooms held erect on good, stiff stems; a profuse bloomer.

**Dorothy Head.** Bright salmon, with a suffusion of yellow, running from the center of flower to the point of each petal; produces handsome flowers on long, rigid stems in August and continues blooming profusely throughout the season. This variety has created quite a sensation in our trials during the past season.

**Ethel Head.** Yellow-ocher shaded to salmon; a color very refined and pleasing; very free bloomer; a splendid grower and a lasting variety.

**Glory of Nijkerk.** Crimson-cerise, shaded maroon; a deep, spreading flower of striking color; plants robust and sturdy growers, with heavy, finely cut foliage, and very free-flowering. This variety is of European origin and has done exceptionally well in our trials.

**Harvard.** Brilliant crimson, shaded lake; a splendid grower in every way; flowers freely and of ideal Peony-flowered type; an early bloomer as well.

**King Albert.** A clear, rich, deep golden yellow; petals well twisted; flowers large, borne on strong, stiff stems; begins flowering early and continues profusely throughout the season.

**Newport.** Beautiful, deep, rich carmine; a flower of even tone and large, fine form; stems long and stiff, profuse bloomer; a very attractive variety.

**Professional.** Bright poinsettia-red, with a distinct yellow disc, making a charming and effective contrast. A distinct variety of unique coloring, producing flowers of exhibition size throughout the season, borne on long, strong, wiry stems.

Glory of Nijkerk Dahlia

**Pink Beauty.** Pale, delicate blush-pink throughout, the flower holding its color magnificently; stems long; flowers large and of fine form.

**P. W. Popp.** Beautiful lake, suffused with brilliant flame in center. The most distinct Dahlia in the Peony-flowered class both in flowers and foliage. The merit of the large, spreading flowers of vivid coloring will quickly place this variety in the front rank.

**Pot-plants for delivery during May, $1 each, $10 per doz.; set of one each, twelve varieties, $10.00**

# Select Peony-Flowered Dahlias of Recent Introduction

The following list will be supplied during the season in strong tubers, until our supply becomes exhausted, when plants will be supplied at the same price.

**BERTHA VON SUTTNER.** Blush-rose, with salmon tint; most graceful flowers of giant dimensions, having elegantly twisted and curved petals. Very fine acquisition, obtained by hybridization with the variety H. Hornsveld. A compact, sturdy grower; flowers carried erect on stout stems. 35 cts. each, $3.50 per doz.

**CECILIA.** Creamy white, shaded lemon toward the center; of fine form and exceptionally large size. Keeps a long time in water and is splendid for home adornment. 50 cts. each, $5 per doz.

**CÆSAR.** Clear, soft buttercup-yellow, which in the sunlight has a glittering golden sheen. The scarcity of true yellows makes this variety doubly welcome. 50 cts. each, $5 per doz.

**COCHINEAL.** A most striking variety and the subject of much admiration in our fields. Cochineal was the first to bloom and produced more flowers per plant than any other variety in the fields. Deep cochineal-red, shaded fawn. Plants, 50 cts. each, $5 per doz.

**DR. PEARY.** A new and distinct color of this type, being a dark mahogany of velvety texture. 50 cts. each, $5 per doz.

**DUKE HENRY.** Soft, dark red, of lovely shade; loose, semi-double flowers on long stems. 25 cts. each, $2.50 per doz.

**GEISHA.** The showiest and most attractive of this type yet introduced; of strong growth, with the rich-colored flowers standing well above the foliage. A rich combination of scarlet and gold shading off lighter at the edges. 50 cts. each, $5 per doz.

**GERMANIA.** Bright, glowing crimson-scarlet; a very fluffy, artistic flower, borne on a long, stiff stem. 25 cts. each, $2.50 per doz.

**HORTULANUS BUDDE.** Bright orange-red; a splendid round form; blooms very erect, well above the foliage. 50 cts. each, $5 per doz.

**H. J. LOVINK.** White, mauve shaded; very robust grower, bringing its flowers erect above the foliage. This variety is very attractive and is classified as one of the best introductions of last year. 50 cts. each, $5 per doz.

**KING EDWARD.** Deep purple. A unique shade; flowers of fine form with long, pointed petals, borne on long stems. 35 cts. each, $3.50 per doz.

**KING LEOPOLD.** The best yellow among the Peony-flowered varieties. Color varies from cream-yellow to white; flowers very large. 25 cts. each, $2.50 per doz.

**MANNHEIM.** Soft orange-red; very fine; long, strong stems. 25 cts. each, $2.50 per doz.

**QUEEN WILHELMINA.** Immense, fluffy flowers of pure white, with yellow center; makes a handsome flower for decoration. The most satisfactory pure white we have. 35 cts. each, $3.50 per doz.

**SHERLOCK HOLMES.** Lovely mauve, a new color in this race; of grand form, the flowers standing erect above the foliage and freely produced. 50 cts. each, $5 per doz.

# Giant Single, Century and Collarette Dahlias

## NOVELTY SINGLE DAHLIA

**Amber.** The sensation of 1912. Beautiful, amber-shaded fawn. Grows 5 feet high. Flowers produced on long stems in great profusion throughout the entire season. This variety is one of our own introductions and was awarded a Certificate of Merit at the Dahlia Show, held at the American Institute, September 22 to 26, 1912. (*Grower's description.*) Green plants will be distributed in May 1915 at 50 cts. each, or $5 a dozen.

## EIGHT SPLENDID CENTURY DAHLIAS

**CRIMSON CENTURY.** Deep, glowing crimson, shaded dark and tipped rose, with rose disc, beautiful combination of colors; better described as a deep rose ground, with rich crimson blotch.

**GORGEOUS.** Brilliant dazzling scarlet; much superior to Scarlet Century, flowers larger and a stronger grower.

**HARVARD.** The flowers are of immense size, often reaching 8 inches in diameter, having the same form as Pink Century, and borne on long stems. Intense "Harvard" crimson, with most brilliant, glistening sheen.

**MAROON CENTURY.** Rich maroon, shaded plum; very large and velvety. A strong, vigorous grower, producing large, well-shaped flowers on long stems well above the foliage.

**PINK CENTURY.** Of gigantic size; a strong, vigorous grower with fern-like foliage. The color is a delicate shell-pink, slightly suffused clear, soft pink.

**WHITE CENTURY.** The flowers are of immense size—6 to 7 inches in diameter—of a beautiful snow-white.

**YELLOW CENTURY.** The plant is tall, producing flowers well above the foliage; bright canary-yellow; the flowers measure from 5 to 7 inches in diameter.

**20TH CENTURY.** Flowers are very large—4½ to 6 inches in diameter—of perfect form, exquisite finish; color intense rosy crimson, with white tips and white discs around the yellow center, producing a brilliant effect. As the season advances, the dark-colored zone becomes lighter.

**25 cts. each, $2.50 per doz.**

**COLLECTION: One each, 8 varieties ..... $1.75**

Single Dahlia, Amber

Collarette Dahlia, Maurice Rivoire

## COLLARETTE DAHLIAS

French specialists have given us many improved forms of this type, some with very large flowers and delightful color combinations, from which we have selected the varieties here offered. These unique flowers were exhibited quite extensively last year in foreign countries, meeting with great approval, and we predict the same success here. The flowers are single, with a row of petals around the center known as the "Collar," which is usually different in color from the rest of the flower. Owing to the rarity of these new introductions we are only able to supply growing plants, for delivery during May, of all the varieties.

**ALBERT MAUMENE.** A beautiful shade of light pink; collar white and pink; very erect growth. Plants, 75 cts. each, $7.50 per doz.

**AMI NONIN.** Splendid blending of colors—salmon shading to lilac and pink; collar white, tinted orange and pink. Plants, 75 cts. each, $7.50 per doz.

**BARONNE AD. DE ROTHSCHILD.** Shades of pink, carmine and yellow, with white border; collar pink and white. Flowers are very large and of perfect form. Plants, 35 cts. each, $3.50 per doz.

**DIRECTEUR RENE GERARD.** Creamy white, suffused with French purple; collar petals long and creamy white; flowers very large. Plants, 50 cts. each, $5 per doz.

**EXPOSITION DE LYON.** Rich garnet; collar white, splashed and striped with crimson. Plants, 25 cts. each.

**MAURICE RIVOIRE.** An attractive flower, with petals of ox-blood-red, with deeper stripe down the center; pure white, fringed collar. Plants, 25c. each, $2.50 per doz.

**MONSIEUR GEORGES BRUANT.** Enormous flowers of violet-crimson, edged white; collar white. Plants, 35 cts. each, $3.50 per doz.

**MONSIEUR LOUIS FERARD.** Velvety claret, edged, tipped and splashed white. Collar petals very long and of same shading. One of the most effective Collarettes. Plants, 50 cts. each, $5 per doz.

# EVERGREEN TREES BY MAIL

## POSTPAID—12 PACKAGES AS BELOW

**Fine for hedges, windbreaks and ornamental lawn planting. These packages must be purchased as listed. By mail, postpaid to destination. Safe arrival guaranteed to any point in the United States. $1.50 per package; any 6 packages for $7.50.**

**Complete planting instructions and cultural directions will be furnished with each order.**

There is unquestionably no better way of beautifying your grounds than surrounding it with beautiful Evergreens. Evergreens are a permanent asset. They are everlasting and add to the beauty of the home winter and summer. Plant some Evergreens around your garden, and just see how much difference there is in the temperature and moisture. You will find that you can grow flowers, fruits and vegetables that you never could before. Groups of Spruces, Pines, Firs and individual trees here and there about the yard, and along driveways, change a dreary house into a comfortable home. Remarkable effects are produced by Evergreens, with color and foliage blending harmoniously—full of mystery at dawn or dusk. In summer they are cooling and refreshing. In winter they add color, warmth and cheerfulness.

These varieties have been thoroughly tested and proved absolutely hardy and reliable, and will grow successfully in all parts of the country. Send in your orders as early as possible to avoid disappointment, as stock is limited. Shipment will be made in March, April or May. You cannot afford to overlook these wonderful collections.

1. 100 Norway Spruce. 3-yr. seedlings.
2. 100 Scotch Pine. 2-yr. seedlings.
3. 100 Douglas Fir. 2-yr. seedlings.
4. 50 Colo. Blue Spruce. 2-yr. seedlings.
5. 100 White Pine. 2-yr. seedlings.
6. 50 Black Hills Spruce. 3-yr. seedlings.
7. 100 Amer. Arborvitæ. 3-yr. seedlings.
8. 100 Dwarf Mount. Pine. 3-yr. seedlings.
9. 100 Jack Pine. 2-yr. seedlings.
10. 100 Concolor Silver Fir. 2-yr. seedlings.
11. 100 Ponderosa Pine. 3-yr. seedlings.
12. 100 White Spruce. 3-yr. seedlings.

**$1.50 per package, any 6 packages for $7.50, by mail postpaid.**

# Our Frost-Proof Cabbage Plants Will Double Your Profits. Why?

There are a number of sea islands along the South Carolina seacoast where the soil and climatic conditions are just suited for growing tough, hardy Cabbage plants during the winter and early spring. The plants make a slow but steady growth, until at eight to ten weeks of age they are very tough and hardy, the buds are purple and the outer leaves a reddish brown. When in this condition they can be shipped to the territory farther north and be planted in the open ground a month to six weeks sooner than the home-grown hotbed or coldframe plants could be planted. These FROST-PROOF CABBAGE PLANTS will stand a temperature of 8 to 10 degrees above zero without injury; the land freezing, or the plants being covered with ice, sleet or snow after they are planted, will not injure them.

The top of the plant does not grow until our regular spring weather opens up, but the roots grow from the time they are planted, and just as soon as spring weather starts, the established root-growth assimilates the fertilizer in the soil, the plants grow very fast, maturing headed Cabbage ten days to three weeks sooner than you can mature them from hotbed and coldframe plants. You know what the difference in profit will be if your crop is matured and marketed before the general crop from home-grown plants.

**To get the advantage of these Frost-proof Cabbage Plants they must be planted a month or six weeks earlier than you would plant home-grown plants.**

Our Cabbage plants are grown from the best Long Island-grown seed, and are shipped direct from our growing station in South Carolina by parcel post or express. We can fill orders from December 1 to April 15.

The plants will be somewhat wilted and have a hard, stunted appearance, which will be disappointing to persons who have never used these plants before. Regardless of appearance, they will produce the crop results. We guarantee good-order delivery.

## Varieties: Early Jersey Wakefield, Charleston (Large Type) Wakefield, Succession and Early Flat Dutch

***By parcel post, prepaid, 50 cts. per 100, $2 for 500, $3.75 per 1,000.***

# NEW AND RARE GLADIOLI

The following Gladioli, many of which are very high in price, represent the cream of the introductions of many noted growers. While the prices may seem high, they are justly based on the small stocks available. We would advise our customers who are desirous of obtaining a more select and advanced list than that which they already have, to procure some of the following varieties.

Bulbs may be planted in April, and if flowers are desired from July until October, they may be planted at successive intervals of two weeks up to July 1.

CULTURE.—Any good garden soil will grow Gladioli well, provided they are planted in a sunny location. Bulbs should be planted 4 inches deep and at least 6 inches apart; frequent cultivation with a hoe or weeder, around the base of the plant, to prevent the soil from becoming hard or cakey is advisable. Where desired for garden decoration or exhibition, we advise plants being staked after attaining the height of 1 foot. (We offer light green dyed bamboo canes, which are excellent for this purpose.) Water copiously, and as the flower-buds begin to form, apply liquid manure for best results.

**Crackerjack.** While this variety is not a novelty, we have listed it in this section in order to acquaint our patrons with its suitability as a cut-flower in combination with Niagara and Panama, offered in this list. The flowers are of a rich, velvety dark red, throat spotted with yellow and dark maroon; of large size, borne on strong, graceful spikes. 15 cts. each, $1.50 per doz., $10 per 100.

**Dawn.** (Tracy.) There is another "Dawn" as well as a variety "Dawn Ray" offered in American catalogues. We believe the variety we are offering is the most pleasing shade of shell-pink yet seen in the Gladiolus. The flowers are well formed, borne on straight but graceful spikes, as many as six flowers open at one time. 20 cts. each, $2 per doz., $15 per 100.

**Europa.** Without a doubt the finest pure snow-white Gladiolus introduced to date. The flower is uniform throughout and opens evenly on a strong, graceful spike. We recommend intending growers of this variety not to plant bulbs after the middle of May, as late planting does not seem to produce the best results. 20 cts. each, $2 per doz., $15 per 100.

**Fire King.** Long, graceful spikes, showing half a dozen immense blooms open at the same time; intense, fiery scarlet, more brilliant than Brenchleyensis, Cardinal or Mrs. Francis King. 35 cts. each, $3.50 per doz., $25 per 100.

**Florence.** A uniform soft lilac, with blotch on lower petals which greatly enhances its color. A splendid sort for combining with the pale primrose sort, Niagara, offered in this list. A very attractive variety. 35 cts. each, $3.50 per doz., $28 per 100.

**Mrs. Frank Pendleton.** A gem of the first water. Most amateurs and professionals who have seen this grand variety in the fields and at exhibitions are loud in their praise. Its delicately flushed salmon-pink color, extending to the reverse side of the petals as well as in the center, its wide-open blooms, arranged loosely on strong, wiry stems, which fall gracefully when placed in vases, and the deep rich maroon blotch on the three lower petals make a combination of distinct merit not possessed by many of our best Gladioli. 35 cts. each, $3.50 per doz., $25 per 100.

**Niagara.** A splendid companion to America, introduced by the originator of this now universally popular sort. While it resembles it in form, the flowers are somewhat larger and the spike is taller. The color of this variety is soft primrose. Deep in its throat are lines of faint lilac; the purple stamens and pale carmine stigmas give the flower a delightful, pleasing color. 20 cts. each, $2 per doz., $15 per 100.

**Panama.** Exquisite and magnificent, being fully the equal of America in form and size, but superior to it in color, being a deeper shade of pure rose-pink, similar to that of the popular rose, Mrs. John Laing. Wherever this variety has been exhibited it has secured First Premiums. European growers have endeavored to secure the entire stock, in some cases offering $1 each for the bulbs or bulblets when first introduced. 20 cts. each, $2 per doz., $15 per 100.

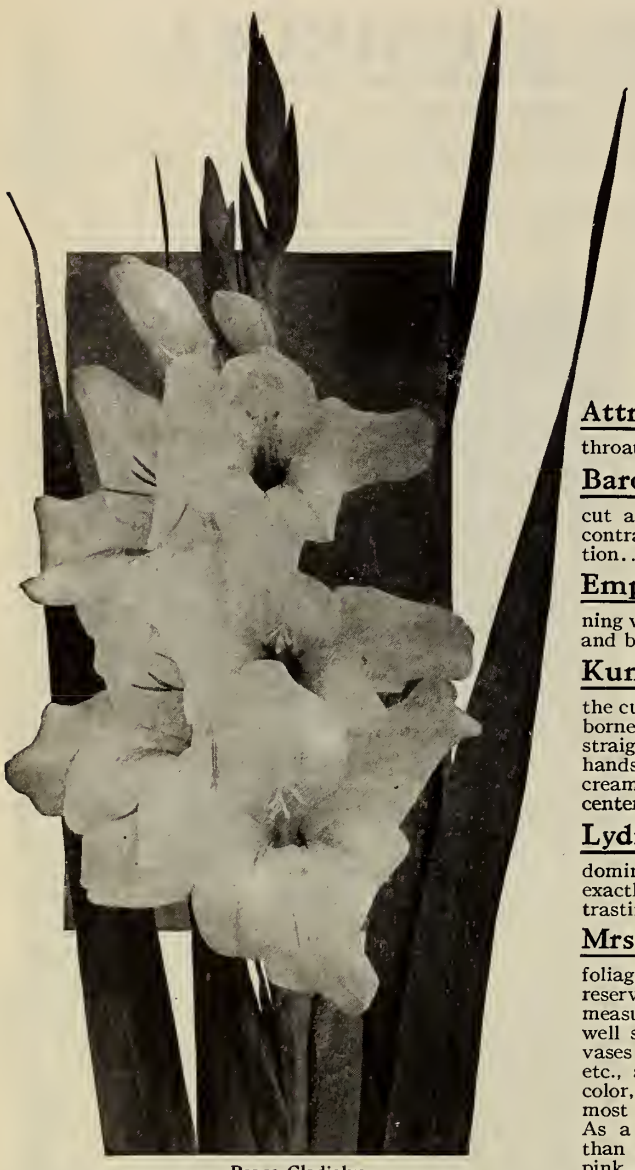
**Rochester White.** A splendid pure white variety; while not quite so large as Europa, has the advantage of doing well in early as well as later plantings. The large, pure white flowers are well arranged on strong spikes. The anthers and pollen are pure white. This pleasing characteristic does not appear in any other white variety offered by us. 25 cts. each, $2.50 per doz., $20 per 100.

**Schwaben.** Without the least doubt, the finest yellow of recent introduction. A robust, rather dwarf, grower; pure canary-yellow with a carmine blotch deep in the throat, which does not detract from its beautiful, uniform color. The flowers are large, borne on strong stems, well placed. frequently six to eight open at one time. 50 cts. each, $5 per doz., $40 per 100.

**War.** A flower of gigantic proportions; of deep ox-blood-red, shaded crimson-black, and borne on strong, stiff spikes, with beautiful, deep green, massive foliage. There is no Gladiolus to date that outrivals this splendid novelty for strength of habit, size of bloom or brilliance of color. 75 cts. each, $7.50 per doz., $60 per 100.

**Willy Wigman.** Large-flowered; of a beautiful blush tint, with long, bright crimson blotch on lower petals. One of the most attractive Gladioli on the market, and the effect of the crimson on the cream petals is most pleasing. 15 cts. each, $1.50 per doz., $10 per 100.

Gladiolus, Mrs. Frank Pendleton.



Peace Gladiolus

# TWELVE FINE EXHIBITION GLADIOLI

Each year we are requested to prepare a list of the best Gladioli within a limited number of varieties covering all distinct colors. The following varieties which, in some instances, have been superseded by newer varieties offered on the preceding pages, are good exhibition sorts, and may now be obtained at prices that should encourage everyone to buy in larger quantities.

| | Each | Doz. | 100 |
|---|---|---|---|
| **America.** One of the most popular Gladioli offered, on account of its many good points, and while now superseded by Panama, it is still a strong favorite. It is grown by thousands everywhere in the United States. Its delicate lavender-pink flowers, of large size, borne on robust stems, make delicate cut-flowers | $0 05 | $0 35 | $2 50 |
| **Attraction.** Deep, dark, rich crimson with a very conspicuous, large, pure white center and throat. A most beautiful and attractive sort | 10 | 75 | 5 00 |
| **Baron Hulot.** Rich, royal violet-blue; one of the finest in its color. When this Gladiolus is cut and arranged in combination with Sulphur King, the contrast is truly exquisite, and it should be in every collection | 10 | 75 | 5 00 |
| **Empress of India.** Rich, dark brown-red, a rather rare color; splendid for combining with pale varieties offered on this page; flowers are large and borne on strong, stiff stems; foliage deep green | 10 | 1 00 | 7 00 |
| **Kunderdi "Glory."** This beautiful ruffled Gladiolus is a distinct advance in the culture of this flower. The flowers are broadly expanded, borne in twos, all face the same direction, and are carried on straight, stout stalks, having from three to eight of these handsome flowers open at a time. The color is a delicate creamy pink, with a most attractive crimson stripe in the center of each lower petal | 10 | 1 00 | 7 00 |
| **Lydia.** A fantastic mottling of pinkish white and deep, rich crimson, in some flowers the white predominating, and in others the crimson, no two spikes being exactly alike. A charming variety that can be used for contrasting with the scarlet and red sorts | 15 | 1 50 | 10 00 |
| **Mrs. Francis King.** Is a strong grower, vigorous and healthy. Has long, strong foliage and effective flower-spikes, with a goodly number of reserve buds continually opening. The magnificent flowers measure 4½ inches across, and there are five or six flowers well spread out on the spike at the same time, giving for vases in hotel lobbies and dining-rooms, parlor decorations, etc., an effect not produced by any other Gladiolus. The color, brilliant flamingo-pink, blazed with vermilion-red, is most effective both in daylight and under artificial light. As a seller in flower stores it has brought better prices than any other kind except America, which, with its soft pink flowers, excels Mrs. Francis King for floral design work and for that only | 05 | 50 | 3 50 |
| **Peace.** One of the grandest white introductions of 1912, that will retain its place among the good white varieties for some time to come. The pale lilac feathering on the inferior petals, together with its strong, broad, rich green foliage and spike, make it a most desirable Gladiolus in any collection. This variety seems to produce blooms of a better white later in the season than most sorts. Bulbs planted late in June have produced wonderful flowers in September | 10 | 1 00 | 7 00 |
| **Princeps.** (**The Amaryllis-flowered Gladiolus.**) Considered the best of its color. Wonderful-sized flower, perfect shape, brilliant coloring, and artistic form of flower-spike are each a notable improvement of all existing varieties. Color is brilliant scarlet-crimson, carrying mostly three broad white blotches on the lower petals. First-size bulbs, 1 to 1½ inches | 10 | 1 00 | 7 00 |
| **Rosy Spray.** Beautiful, large flower of good habit; white, exquisitely sprayed rose; one of the best; magnificent, strong and erect spike | 15 | 1 50 | 10 00 |
| **Sulphur King.** For size of flower and keeping qualities, this Gladiolus is considered as being the best of the yellows. A few blooms cut and arranged in vases in combination with Baron Hulot will prove most effective | 20 | 2 00 | 15 00 |
| **Wild Rose.** A remarkable Gladiolus, and one that will gain prestige as it is known, as it ranks with the very best. Color bright rose or blush-tint. This was rightly named, and the wild rose tinge of color is strongly pronounced | 15 | 1 75 | 12 00 |

## SPECIAL OFFER: Collections

**DELIVERED ANYWHERE IN UNITED STATES**

**1 bulb each, 12 varieties (12 bulbs) ..... $1 50**
**5 bulbs each, 12 varieties (60 bulbs) ..... 6 00**
**10 bulbs each, 12 varieties (120 bulbs) ..... 10 00**

# Standard Named Gladioli

**Augusta.** Best white for the amateur to grow. Pure white, throat slightly tinted lavender. Selected bulbs, 5 cts. each, 50 cts. per doz., $3.50 per 100.

**Blanche.** A sterling white variety with but faint marks. The flowers are very large. A fine exhibition Gladiolus. 30 cts. each, $3 per doz., $20 per 100.

**Brenchleyensis.** Clear vermilion-scarlet, one of the most showy and satisfactory of its color. 5 cts. each, 50 cts. per doz., $3 per 100.

**Canary-Bird.** While this variety does not equal Sulphur King, it is preferred by many and considered a splendid yellow. 10 cts. each, $1 per doz., $8 per 100.

**Cardinal.** A perfect spike; flowers of intense cardinal-red, very rich and showy, representing one of the finest varieties. 25 cts. each, $2.50 per doz., $15 per 100.

**Compacta.** Large flower, very compact; wide spike, rosy blush, slightly striped and mottled pink. Quite distinct and very handsome. 15 cts. each, $1.25 per doz., $9 per 100.

**Contrast.** A flower of great substance and a beautiful, compact spike of perfect form. Color intense scarlet with large, distinct, pure white center, which is neither tinted nor mottled. One of the most striking and beautiful Gladioli ever introduced. 50 cts. each, $5 per doz., $35 per 100.

**Eugene Scribe.** Very large and wide; tender rose, blazed carmine-red. 10 cts. each, 75 cts. per doz., $6 per 100.

**George Paul.** One of the largest-flowering varieties, produced in great numbers on graceful, slender stems; rich crimson. 15 cts. each, $1.50 per doz., $10 per 100.

**Independence.** A brilliant rose-pink, with richly marked throat; a long spike of wax-like flowers; one of the best for cut-flowers or massing, because of its color and lasting quality of the blooms. 40 cts. each, 60 cts. per doz., $4 per 100.

**I. S. Hendrickson.** A beautiful, irregular mottling of white and rose; in some the rose and in others the white predominating; flowers immense in size. 15 cts. each, $1.50 per doz., $10 per 100.

**Jean Dieulafoy.** We consider this as one of the very best varieties of recent introduction. The flowers are of large size, of a beautiful shade of creamy white, enhanced by the lower petals being stained maroon, and borne on strong, rich green stems. 20 cts. each, $2 per doz., $12 per 100.

**May.** Pure white; delicately flaked rosy crimson and a very excellent sort for early flowering. 5 cts. each, 50 cts. per doz., $3 per 100.

**Mrs. Beecher.** Beautiful deep, rosy crimson. Large, well-opened flowers with pure white throat freely marked and spotted. 15 cts. each, $1.50 per doz., $10 per 100.

**Nezinscott.** Bright blood-scarlet, with deep, velvety crimson-black blotches and white mottlings. 15 cts. each, $1.25 per doz., $9 per 100.

**Portland.** Rosy red, penciled darker, mottled throat; a very striking variety. 10 cts. each, $1 per doz., $8 per 100.

**Primulinus (Maid of the Mist).** One of the finest species from South Africa; a very thin, wiry, slender stem is decked with clear canary-yellow flowers of medium size, of which but two or three are open at one time. The form of the blooms is exceedingly interesting, the upper petal being hooded and the attached two lower petals being expanded gives it a striking appearance. For cutting or house decoration it is invaluable and most graceful. 20 cts. each, $2 per doz., $15 per 100.

**Primulinus major hybridus.** From the original species our grower has produced, by crossing and recrossing into the finest large-flowering varieties, an entire new form of Gladiolus, all petals of which open wide and are of extra-large size. From the purest and lightest of yellow, it varies to the deepest orange, and from the softest shade of salmon-pink down to rich crimson; also a few white. Dainty blotches in the throat add to their beauty. 10 cts. each, $1 per doz., $7.50 per 100.

Jean Dieulafoy Gladiolus

**Scarsdale.** Long, graceful spike of wide-open flowers of a pleasing lavender shade; splendid for contrasting with pale sorts offered on this page. 15 cts. each, $1.50 per doz., $10 per 100.

**Shakespeare.** White, very slightly suffused with carmine-rose, large rosy blotch. 15 cts. each, $1.25 per doz., $9 per 100.

**Taconic.** A flower of striking appearance; flecked pink; lower petals marked deep crimson. $1.50 per doz., $10 per 100.

# Gladiolus Mixtures

**S. & W. Co.'s Selected Mixed.** This mixture is composed of very choice varieties and represents a good many of the varieties listed in our catalogue. Bulbs of fine, selected size and, where an assortment of various types and colors is desired, we strongly recommend it. 35 cts. per doz., $2.50 per 100, $20 per 1,000.

**AMERICAN HYBRIDS.** All colors mixed. 35 cts. per doz., $2 per 100, $15 per 1,000.

**CHILDSII.** Mixture of large-flowering sorts. 50 cts. per doz., $3.50 per 100, $30 per 1,000.

**GROFF'S NEW HYBRIDS.** The flowers are of good substance. All colors among Gladioli are well represented, including blues, grays and purple-blacks. Mixed, 50 cts. per doz., $3 per 100, $25 per 1,000.

## Various Shades

**YELLOW and ORANGE SHADES.** 75 cts. per doz., $6 per 100.

**SCARLET and RED.** 50 cts. per doz., $3.50 per 100.

**WHITE and LIGHT.** 60 cts. per doz., $4 per 100.

# TWO RARE HARDY LILIES FROM CHINA

Few Lilies introduced of recent years have met with as much favorable comment as *Lilium myriophyllum* and *Lilium Sargentiæ*. Both are of wonderful substance, perfectly hardy and delightfully fragrant.

*Lilium myriophyllum*, which blooms early in July, fills a long-felt want. Blooming as it does just after *Lilium candidum* has finished, and before the Auratum and Speciosum varieties, it should be planted extensively by those desiring a succession of Lilies.

## Lilium myriophyllum

Mr. E. H. Wilson, the famous plant-collector, collected in northwestern China the bulbs now offered. He considers this the finest of all Lilies. It is absolutely hardy and is excellent for forcing. It has been predicted that this will become the Easter Lily of the future, and being so hardy, may be grown at home. The flowers are white, slightly suffused with pink, with a beautiful shade of canary-yellow at the center, extending part way up the trumpet. It is delightfully perfumed, reminding one of the jasmine, and lacking the heavy oppressive odor of most Lilies. Blooms out-of-doors early in July. Awarded a Gold Medal by the Massachusetts Horticultural Society, and a First-class Certificate by the Royal International Exhibition, London, 1912. $1.50 each, $15 per doz.

Lilium myriophyllum

Lilium Sargentiae

## Lilium Sargentiæ

The bulbs offered were also collected by Mr. Wilson. This is one of the strongest-growing Lilies, frequently attaining a height of 6 to 8 feet. The flowers vary in number from five to ten on a stalk, and in size and shape resemble *Lilium Harrisii*; they are greenish white, shaded purple, on the outside, and of the purest white within, with a tint of citron in the center. They also have a pleasing fragrance. This Lily will undoubtedly be largely used for outdoor planting as well as for forcing. Many consider it the finest of all tubular-flowered Lilies. It flowers somewhat later than *Lilium myriophyllum*, and being of larger growth, has a distinct place. Awarded a Gold Medal by the Massachusetts Horticultural Society, 1913. $1.50 each, $15 per doz.

# HARDY LILIES

We especially recommend deep planting, say, from 6 to 10 inches; varieties like Speciosums require at least 10 inches, with an ample amount of sand beneath the bulb to insure proper drainage. Cover the beds with leaves or litter during winter. Lilies thrive well in borders, formal gardens or shrubbery, and usually flower at a time when the shrubbery has ceased blooming, adding increased interest. The following varieties have proven to be sorts that may be planted in the fall **or** spring time with excellent results. We frequently receive orders for *Lilium candidum* for spring delivery. This Lily arrives in our country from France in August and must be planted by October 1.

Lilium auratum (Golden-rayed Lily of Japan)

## Lilium auratum

**(Golden-Rayed Lily of Japan)**

The flowers are pure white, thickly studded with crimson spots, while through the center of each petal runs a clear golden band. Fully expanded, the flowers measure nearly a foot across, are produced abundantly from June to October, and possess a most delicious fragrance. 3 to 5 feet.

| | Each | Doz. | 100 |
|---|---|---|---|
| 8- to 9-inch bulbs | $0 10 | $1 00 | $8 00 |
| 9- to 11-inch bulbs | 20 | 2 25 | 15 00 |
| 11- to 13-inch bulbs | 40 | 3 50 | 25 00 |
| 13- to 15-inch bulbs | 50 | 5 00 | 40 00 |

## Lilium speciosum magnificum

This Speciosum Lily is an improvement on Rubrum, Roseum or Melpomene, and is a most excellent flower for forcing in the conservatory or greenhouse and for planting out. It is of more robust habit than Rubrum, Roseum or Melpomene and a freer bloomer, its color being a rich scarlet.

| | Each | Doz. | 100 |
|---|---|---|---|
| 8- to 9-inch bulbs | $0 10 | $1 00 | $8 00 |
| 9- to 11-inch bulbs | 20 | 2 25 | 15 00 |
| 11- to 13-inch bulbs | 40 | 3 50 | 25 00 |

## Lilium speciosum album

The white Speciosum, which is usually grown with Magnificum and *Lilium auratum*, is a very dainty Lily. It flowers outside in the border or among Rhododendrons at the same time as Auratum and Magnificum, and is one of the most extensively cultivated varieties.

| | Each | Doz | 100 |
|---|---|---|---|
| 8- to 9-inch bulbs | $0 20 | $2 25 | $15 00 |
| 9- to 11-inch bulbs | 40 | 3 50 | 25 00 |

## OTHER HARDY LILIES

| | Each | Doz. | 100 |
|---|---|---|---|
| **Batemanii.** A truly charming Japanese variety, growing 3 feet high, with 6 to 8 apricot-colored flowers on a stem. Blooms in July and August | $0 25 | $2 50 | $18 00 |
| **Canadense** (Canadian Bellflower Lily). One of the most beautiful native Lilies; flowers bright yellow, black spots | 15 | 1 25 | 9 00 |
| **Elegans bicolor.** Bright red, flushed; very showy and large | 15 | 1 50 | 10 00 |
| **Elegans, Painted Chief.** Bright flame-color | 20 | 2 00 | 12 00 |
| **Elegans Aurora.** Deep, rich orange, suffused scarlet | 25 | 2 50 | 15 00 |
| **Elegans, Leonard Jeorg.** Rich apricot, spotted; very fine | 20 | 2 00 | 12 00 |
| **Henryii.** (**The Yellow Speciosum.**) A new and very beautiful hardy Lily from northern China. The plants are of vigorous growth, frequently attaining the height of 6 feet. This Lily is noted for its graceful habit and is an unusually excellent bloomer. Color rich golden yellow, lightly spotted with brown, and in shape quite resembles the Speciosum types | 70 | 7 00 | 50 00 |
| **Longiflorum giganteum.** The trumpet Easter Lily; does well outdoors also. | | | |
| 7- to 9-inch bulbs | 15 | 1 50 | 10 00 |
| 9- to 10-inch bulbs | 25 | 2 50 | 20 00 |
| **Hansonii.** Under favorable conditions attains a height of 3 to 4 feet. Flowers reddish orange, eight to twelve in a cluster; petals thick and durable; a native of Japan and has always been high in price, but we have a stock of strong, home-grown bulbs that will give splendid satisfaction | $0 50 | $5 00 | $40 00 |
| **Superbum.** In a collection of best plants of all countries, our native Superbum Lily would deserve a first place. In deep, rich soil it often grows 8 feet high, with twenty to thirty flowers. It is of the easiest culture, and may be grown as a wild flower in any swampy or rough part of a place where the grass is not mown. Extra selected bulbs | 15 | 1 50 | 10 00 |
| **Tenuifolium.** The lovely Coral Lily of Siberia. A great beauty. The brightest of all Lilies. Grows 20 inches high, with finely cut foliage, slender stems and beautiful shaded flowers of a coral-red. One ought to grow them by the dozen, they are so fine for cutting, and making clumps for the lawn. Blooms very early | 15 | 1 50 | 10 00 |
| **Tigrinum flore pleno.** The Double Tiger Lily. The only double Tiger Lily worth growing | 15 | 1 25 | 8 00 |
| **Tigrinum splendens.** Improved Single Tiger Lily. 8- to 10-inch bulbs | 15 | 1 50 | 12 00 |
| **Umbellatum.** Somewhat similar in habit to Elegans varieties; flowering in large clusters and range in all shades from orange to deep scarlet. Mixed colors | 15 | 1 25 | 8 00 |
| **Wallacei.** Orange-scarlet, spotted with maroon. 3 ft. September-blooming | 10 | 1 00 | 7 00 |

## RUSSIAN LILY-OF-THE-VALLEY CLUMPS

**For Outdoor Planting**

Our Lily-of-the-Valley Clumps are extra selected, well grown and, if planted outdoors by the middle of April, will flower splendidly during May. If grown under the proper conditions, these clumps will increase rapidly, and every spring produce a profusion of dainty flowers. Extra-strong clumps, 35 cts. each, $3.50 per doz., $25 per 100.

## Russian Lily-of-the-Valley Pips

In judging the price of our Russian Lily-of-the-Valley, please remember that the best is the cheapest. Our Valley is positively among the best. Is bought at open prices, with instructions for a selection of the best-developed pips. Our long experience and large importations have commanded this extra selection. Introduced a few years ago, it has now become famous, being forced very extensively by a large number of celebrated Lily-of-the-Valley growers. The Russian Valley produces strong spikes of flowers, about 15 inches in height, bearing from twelve to twenty extra-large, pure white bells, which are delightfully fragrant. For forcing, these pips are the very best that can be planted. **New crop, November delivery, $2.50 per 100, $21 per 1,000.**

## COLD-STORAGE RUSSIAN LILY-OF-THE-VALLEY PIPS

We are prepared to furnish our Russian Lily-of-the-Valley Pips during the entire year in original cases of

## Lily Bulbs from Cold Storage

The following Lilies are repacked on arrival and put in cold storage for the convenience of our patrons who desire to have Lilies in bloom throughout the year. *Lilium longiflorum giganteum* is extensively forced by the florist trade all the year, and can be forced into bloom in four months; *Lilium speciosum* in four to six months. The main point in the culture of Lilies from cold storage is to keep the bulbs in a cool place or cellar, after potting, so as to produce the greatest root-action before bringing to the light.

We do not recommend *Lilium auratum* from cold storage after May 1, as it is subject to decay.

## LILIUM LONGIFLORUM GIGANTEUM

The best all-round Easter Lily (from cold storage) for forcing. This Lily may be had in bloom at any time of the year desired, if allowed three months from planting time.

| | Doz. | 100 |
|---|---|---|
| 7 to 9 inches in circumference | $2 00 | $15 00 |
| 9 to 10 inches in circumference | 3 50 | 25 00 |

## LILIUM SPECIOSUM

| | Doz. | 100 |
|---|---|---|
| **Album.** The white Speciosum. | | |
| 8 to 9 inches in circumference | $3 00 | $20 00 |
| 8 to 10 inches in circumference | 3 50 | 25 00 |
| **Magnificum.** This variety is an improvement on Roseum, Rubrum and Melpomene; it is of more robust habit and a freer bloomer, its color being a rich scarlet. | | |
| 8 to 9 inches in circumference | 2 00 | 15 00 |
| 9 to 11 inches in circumference | 3 00 | 20 00 |
| 11 to 13 inches in circumference | 4 00 | 30 00 |

| | | | | |
|---|---|---|---|---|
| **100 S. & W. Co.'s Famous Russian Valley for $3** | **250 S. & W. Co.'s Famous Russian Valley for $6.50** | **500 S. & W. Co.'s Famous Russian Valley for $12** | **1,000 S. & W. Co.'s Famous Russian Valley for $23** | **2,000 S. & W. Co.'s Famous Russian Valley for $44** |

Caladium esculentum (Elephant's Ear)

# GENERAL LIST of BULBS and PLANTS

## FOR GARDEN, GREENHOUSE AND CONSERVATORY

**NURSERY.** Our stock of Hardy Herbaceous Plants, Shrubs, Trees and Evergreens is quite complete, and we constantly supply Plants, Shrubs and Trees to the best country estates as well as to suburban homes. We shall at all times be pleased to correspond with persons intending to make improvements on the grounds of their homes, and will cheerfully submit estimates of stock desired, or be pleased to make suggestions for the proper embellishment of grounds or gardens.

**ANEMONE.** None of the spring flowers surpass the Anemone for brilliancy of color or profusion of bloom. They are very lasting and in recent years have been grown very extensively for cutting and table decoration.

**Coronaria.** Single blue, crimson, white and scarlet. 25 cts. per doz., $1.75 per 100.

**French de Caen.** Mixed. 25 cts. per doz., $1.75 per 100.

## AMARYLLIS

**Giant-flowering Vittata Hybrids.** Conceded to be the most noble and magnificent section of the Amaryllidaceæ. The stock we have supplied for several seasons has been grown in Bermuda, the seed originally supplied by a most reliable hybridist of this plant. It would require a great amount of space to offer them with descriptions of the several representative types, so we confine ourselves to listing in two general classes—red ground, variegated with white; white ground, variegated with red. The red varies in tones from a brilliant fiery color to crimson; the variegation is sometimes a broad blaze of white in the center of each petal; again, the ground-color is white, abundantly streaked with red or crimson. The flower-spikes are from 1 to 3 feet high, the foliage long and graceful. Flowers borne in clusters, often 8 inches across. Extra-strong bulbs, 75 cts. each, $8 per doz., $60 per 100.

| | Each | Doz. |
|---|---|---|
| **Belladonna major.** Large; violet and white | $0 15 | $1 50 |
| **Equestris** (The Barbadoes Lily). Bright orange-scarlet, with white throat | 25 | 2 50 |
| **Formosissima** (Jacobæan Lily). Brilliant scarlet | 15 | 1 50 |
| **Johnsonii.** Crimson, striped with white | 25 | 2 50 |
| **Hallii** (*Lycoris squamigera*). Bright rosy lilac flowers; fragrant; 3 to 4 inches across; blooms in August. The foliage appears in spring, disappears in June, and is followed two months later by the naked flowers | 50 | 5 00 |

**APIOS TUBEROSA** (**Tuberous-rooted Wistaria**). Clusters of rich, deep purple flowers, which have a strong, delicious violet fragrance. Tubers 10 cts. each, 75 cts. per doz., $5 per 100.

## CALADIUM ESCULENTUM

### Elephant's Ear

One of the most effective plants in cultivation for beds, borders or for planting out upon the lawn. Very frequently used as border plant about suburban residences, where their large, rich green leaves afford an excellent embellishment when contrasted with the colors of the dwellings. Leaves often measure 3 to 4 feet long and 2½ feet wide.

| | Each | Doz. | 100 |
|---|---|---|---|
| First-size Bulbs | $0 10 | $1 00 | $6 00 |
| Large-size Bulbs | 20 | 2 00 | 10 00 |
| Mammoth-size Bulbs | 25 | 2 50 | 15 00 |
| Jumbo-size Bulbs | 50 | 5 00 | 35 00 |

## BESSERA ELEGANS

### Coral Drops

If stored during winter in a dry place and planted in the garden in the spring, it can be grown with perfect ease; its umbels of bright coral-like flowers open in succession during fully two months of the late summer. The flowers are of vermilion-red, variously marked with white on the inner surface; bright purple anthers. Height 1 to 2 feet. 5 cts. each, 50 cts. per doz., $3 per 100.

## CINNAMON VINE

### *Dioscorea Batatas*

A beautiful, rapid-growing summer climber, with bright green, glossy foliage, and spikes of deliciously cinnamon-scented, white flowers. It is perfectly hardy, the stem dying down in winter, but growing with great rapidity in the spring, so as to cover any trellis or arbor very early in the season. Large, select roots, 10c. each, $1 per doz., $7 per 100. Mammoth roots, 25c. each, $2.50 per doz., $15 per 100.

Bed of S. & W. Co.'s Tuberous-Rooted Begonias

# Tuberous-Rooted Begonias

We are headquarters for Tuberous-Rooted Begonias; our stock being strictly selected bulbs of the highest possible quality. The opportunities offered by Tuberous-Rooted Begonias for the embellishment of the shady spots in every garden should specially suggest their use, and where grown as a pot-plant for greenhouse or conservatory decoration they are truly a most worthy subject. Thousands are annually planted in beds in our public squares and parks, as well as used for borders of beds. They will thrive in the open sunlight if care is taken to see that the soil is kept moderately moist. May be started indoors in February or planted out in dormant state in early May.

**CULTURE.**—A popular method of culture adopted by most amateurs is to provide a pan or box, and cover bottom surface to the depth of say one inch or two with sphagnum moss, placing the bulb immediately on top and then covering with still another layer of sphagnum moss. They should be kept moist and moderately warm. Plant in pots in a light but finely sifted soil, about one inch below the surface, and water cautiously until plant has shown considerable growth, then increase the amount. Good drainage is essential. A finely developed plant might consist of three bulbs planted in a 7-inch pot.

## ERECT TYPE

### (Large Bulbs 1½-inch and up)

### SINGLE-FLOWERING BEGONIAS

This class of the Tuberous-Rooted Begonias are largely used for bed- or border-planting.

| | | |
|---|---|---|
| **White** | **Pink** | **Dark Red** |
| **Yellow** | **Rose** | **Salmon** |
| **Nankeen** | **Red** | **Orange** |

**5 cts. each, 50 cts. per doz., $4 per 100**
**Select mixture of all sorts, equal proportions, 5 cts. each, 40 cts. per doz., $3.50 per 100**

### DOUBLE-FLOWERING BEGONIAS

This class of Tuberous-Rooted Begonias are largely used for pot-culture and are graded the same as our Single-Flowering varieties.

| | | |
|---|---|---|
| **White** | **Pink** | **Dark Red** |
| **Yellow** | **Rose** | **Salmon** |
| **Nankeen** | **Red** | **Orange** |

**10 cts. each, $1 per doz., $6 per 100**
**Select mixture of all sorts, equal proportions, 10 cts. each, 75 cts. per doz., $5 per 100**

## Giant-Flowering Fringed Begonias

### MONSTER BULBS

Beautiful giant blooms, with elegantly fringed edges, giving the flowers a most graceful appearance.

| | | |
|---|---|---|
| **Orange** | **Red** | **Yellow** |
| **Rose** | **White** | **Salmon** |

**Named kinds, 20 cts. each, $2 per doz., $15 per 100**
**Special mixed, 15 cts. each, $1.50 per doz., $12 per 100**

## Six Beautiful Bedding Begonias

**Cardinal.** The best everblooming Tuberous-rooted Begonia in cultivation. The color is a deep orange-scarlet; single flowers; bushy habit, grows 15 inches. Fine for bedding or pot-work. 25 cts. each, $2.50 per doz., $20 per 100.

**Little Henry.** Dwarf, compact habit; profuse bloomer; equally suitable for bedding, baskets or pot-work; color brilliant scarlet; very double. 25 cts. each, $2.50 per doz., $20 per 100.

**Duke Zeppelin.** Intense pure vermilion-scarlet. This variety has been grown very extensively as a pot plant in greenhouses, and when contrasted with that of Kathleen Mallard Lobelia the effect produced is most charming; as a border in the garden it will also prove effective. 15 cts. each, $1.50 per doz., $12 per 100.

**New Yellow Zeppelin.** This variety resembles Duke Zeppelin in type and is distinctly new. A strong grower; color clear canary-yellow and a very valuable addition to this already famous type. As a pot-plant this variety should be grown, as it contrasts well with Duke Zeppelin and Lafayette. 35 cts. each, $3.50 per doz., $25 per 100.

**Lafayette.** Beautiful rich crimson-scarlet. This variety is of robust habit and brilliant in the extreme, and certainly a good companion to the two preceding varieties, Duke Zeppelin and New Yellow Zeppelin. 20 cts. each, $2 per doz., $15 per 100.

**Worthiana.** This is a dwarf variety of *Begonia Bertini*, excellent and very free-flowering, which we sent out last year. It is a continuous bloomer, and the brilliat red flowers are borne in great profusion. It will make an excellent bedding variety. and will also be found very useful for edging, and in time will supersede the Vernon and other Semperflorens varieties. 20 cts. each, $2 per doz., $12 per 100.

# NOVELTY GLOXINIAS

This is perhaps one of the handsomest of summer-blooming tuberous-rooted plants and should be grown more by the amateur than it has been. As a pot-plant for the window-garden it is grand. The main points to observe are, proper care in watering, see that the drainage is good, and that the soil is properly mixed. The soil should consist of one part loam, one of leaf-mold, and one part sharp sand. Water regularly and be careful not to have it strike the foliage. Use a can with a small spout that can be thrust into the foliage without injury and deliver water at the base of the plants. Endeavor to keep soil evenly moist and do not permit to become heavy like mud by too-excessive use of water. A fine sprinkling of bone meal occasionally gently pressed into the soil around the plant will make the plant grow luxuriantly and the flowers will be larger and of greater substance. The **crested or frilled varieties** do not make so large a bulb as the standard varieties, but are much superior as regards size of flower and freedom of bloom. The following varieties have proven from our trials to be of unusual merit:

New Frilled Gloxinia

## NEW FRILLED SORTS

**Waterloo.** This is the handsomest and most striking Gloxinia as yet brought out. The flowers are deep purple, exquisitely frilled, bordered brilliant carmine; borne on strong, erect stems, with excellent recurved foliage.

**Meteor.** A brilliant variety that is not easily described. A beautiful fiery carmine-scarlet finely edged pure white, heavy frilled and solid flower. As an exhibition variety, this is bound to be much in demand.

**Nixe.** This variety varies somewhat in the color of its beautiful broad borders. It is a beautiful white; some have a most exquisite deep broad blue border, while others have the rose. The habit of the plant is all that is to be desired. The blooms are large and are borne very profusely on strong, erect stems well above the foliage.

**Marienthaler.** A most excellent crimson, bordered delicate rose, very handsome and attractive large-flowering variety.

**Zeppelin.** Brilliant carmine; large, beautiful, fringed and frilled; quite distinct from any of the standard sorts.

**30 cts. each, $3 per doz., $20 per 100**

## STANDARD SORTS

The following eleven varieties have been selected from a list of greater length and are the best varieties of the standard named sorts.

**EMPEROR FREDERICK.** Red, bordered white.
**EMPEROR WILLIAM.** Violet, bordered white.
**PRINCESS ELIZABETH.** White, bordered blue.
**MONT BLANC.** Pure white.
**VIOLACEA.** Dark violet.
**MADAME HELENE.** White, crowned violet.
**PRINCESS MATHILDA.** White, bordered rose.
**QUEEN WILHELMINA.** Dark rose.
**DEFIANCE.** Brilliant crimson.
**KING OF THE REDS.** Deep scarlet.
**PRINCE ALBERT.** Dark violet.
**FINE MIXED.** Mixture of all sorts listed.

**Price 15 cts. each, $1.75 per doz., $12 per 100**

# FANCY-LEAVED CALADIUMS

No other summer-foliage plant equals the Fancy Caladium in rich and gorgeous, yet soft coloring. All of the varieties are of marvelous beauty for the furnishing of the conservatory during the summer months, for window-boxes or even for outdoor bedding in shady or semi-shady positions. They are of easy culture. The soil should be rich and light; a mixture of equal parts of loam, leaf-mold and thoroughly decomposed stable manure suits them best. The bulbs should be covered with about an inch of soil. Care must be taken in watering until active growth commences, when they delight in a liberal supply, but at all times providing them free drainage. In the autumn, when they show signs of resting, water must be withheld, and the pots containing the roots may be stored in a dry place where the temperature will not fall below 60 degrees.

**Acary.** Violet-red center and ribs, creamy white zone and large scarlet spots; border green.
**Alfred Bleu.** White spots on flesh center; rich green ground.
**Alphonse Karr.** Green ground, carmine-lake ribs; deep red spots.
**Araras.** Rosy white ground, with dark green ribs and veins.
**Bicolor Splendens.** Center deep red, border bright green.
**Bilontra.** Bluish violet center, lighter zone, green border.
**Candidum.** White ground, with strongly-marked green ribs.
**Chantini.** Red ground, with white spots and green margin.
**Euterpe.** Center and ribs red, border green, spotted white.
**Dr. Boisduval.** Red center, pink spots and green border.
**Dr. J. Singelmann.** A strong-growing white.
**Fascination.** Pink center, bronzy red zone, green border.
**Formiga.** Transparent rose, dark green ribs.
**Gaze de Paris.** Transparent white, veined green.
**Itaqui.** Pale rosy ground, red ribs, black stems.
**Lepeschkinei.** Glowing red center and rosy red spots on a green margin.
**Mme. Alfred Bleu Major.** Large, round, white leaves, shaded rose. Veins and nerves reddish rose and green.
**Porto Novo.** Deep green with greenish white center, crimson ribs and spots.
**Petsch Kani.** Deep red center, green border.
**Rio Claro.** Transparent, rosy white, with cerise ribs and green border with white spots.
**Roncador.** Deep glossy green foliage, with almost black ribs and old-rose markings.
**Splendidum.** Deep crimson center with bronzy green border.
**Thomar.** Green, spotted deep red, suffused with pink.
**Virginale.** White with green spots.
**Wightii.** Green ground, spotted red and white.

**20 cts. each, $2.25 per doz.; set of twenty-five varieties, $4**

## CALLAS (Richardia)

The varieties offered below succeed best when treated in the same manner as gladioli, tuberoses and other summer-flowering bulbs. They should be planted in the open border in a dormant condition when danger from frost is over in spring, and will then flower during the summer months. When the tops are killed by frost in the autumn, dig and store through the winter as you would potatoes.

**Golden Yellow** (*Richardia Elliottiana*). This is the best of the Yellow Callas, its flowers being as large as the popular white winter-flowering variety, and is of a rich, lustrous golden yellow of velvety texture; the foliage is dark green, with a number of translucent creamy white spots, which add much to its beauty. Strong bulbs 40 cts. each, $4.50 per doz., $30 per 100.

**Spotted Leaf** (*Richardia albo-maculata*). The leaves of this variety are deep green, with numerous white spots, which give the plant a very ornamental appearance. The flowers are white, with a black center. 10 cts. each, $1 per doz.

## LYCORIS SQUAMIGERA

*Amaryllis Halli*

**The Magic Lily of Japan**

A perfectly hardy Amaryllis bearing beautiful pink flowers. Produces in early spring attractive green foliage which grows until July, when it ripens off and disappears, and any one not familiar with its habits would think the bulb had died; but about a month later, as if by magic, the flower-stalks spring from the ground to a height of 2 or 3 feet, developing an umbel of large and beautiful lily-shaped flowers 3 to 4 inches across and from 8 to 12 in number, of a delicate lilac-pink, shaded with clear blue. As the bulb is perfectly hardy without any protection, it can be planted either in the fall or spring; but we consider the spring the best time as the bulbs will have splendid chance to get established before flowering time. Cover the crowns about 4 inches. As a subject for the hardy border or for planting among shrubbery, this is a most excellent subject and should be more generally grown. Strong flowering bulbs, 35 cts. each, 3 for $1, $3.50 per doz., $25 per 100.

## DIELYTRA SPECTABILIS

**Bleeding Heart**

A well-known ornamental spring-flowering plant with green foliage, and bearing racemes of pink-and-white heart-shaped flowers. Plant as soon as the ground can be worked. They may be left undisturbed for years. By express only. Extra-large clumps, 25 cts. each, $2.50 per doz., $20 per 100.

## MADEIRA VINE

**Climbing Mignonette**

A beautiful and popular vine, covering a large space in a short time. Fleshy heart-shaped leaves of a light green, and numerous racemes of feathery flowers of delicious fragrance. Protect with litter in this latitude. 5 cts. each, 40 cts. per doz.; by mail, 10 cts per doz. extra.

## HYACINTHUS CANDICANS

**(Summer Hyacinth)**

Luxuriant, free-growing summer-flowering plant; spreads 2 to 3 feet, throwing up great, tall spikes, 4 to 5 feet in height, each bearing twenty to thirty large, white, bell-shaped flowers. From our own personal trials we desire to advise our patrons against so-called "Jumbo" bulbs of this delightful plant, as this size frequently decays in the center after being planted. Choice bulbs, 10 cts. each, 75 cts. per doz., $5 per 100.

## MILLA BIFLORA

**Mexican Star Flower**

A beautiful summer-blooming bulb, for sunny positions A row or bed of them is always in flower after the middle of summer and very attractive Flowers star-shaped, 1½ inches across, clear waxy white, of great substance, enlivened by a frost-like sparkle; the fragrance is delightful. Place a stalk in water and the flowers will all open; we have seen eleven stalks shoot up successively from one bulb. The bulbs flower profusely and with great certainty. Height 12 to 18 inches. 5 cts. each, 50 cts. per doz., $3 per 100.

## OXALIS (Summer-flowering)

Valuable for edging walks, flower beds, etc. Bulbs planted 3 inches apart form rounded rows of delicate foliage, about 1 foot high, which produce flowers in endless succession.

**Lasiandra.** Rosy pink. Extra-fine, large flowers. 25 cts per doz., $2 per 100.

**Deppei.** Pink-flushed lavender and crimson. 25 cts. per doz., $2 per 100.

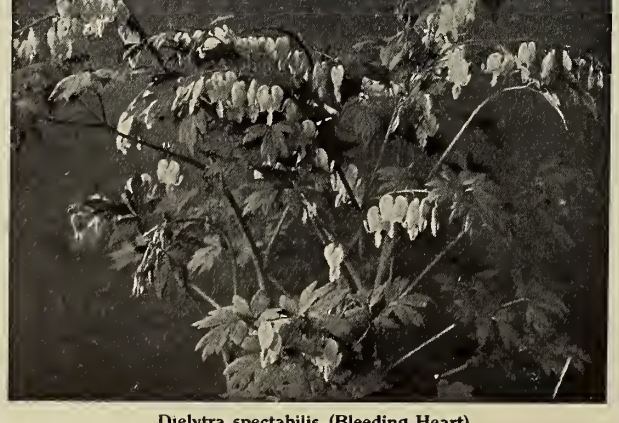
## EREMURUS ROBUSTUS

A noble and rare bulbous plant from Turkestan, and one of the choicest subjects for the permanent hardy border. They thrive best in a well-drained, sheltered sunny position, and prefer a deep, sandy loam to which has been added a liberal quantity of well-rotted cow manure. A covering of 4 or 5 inches of leaves or litter will be beneficial and save the young shoots, which start early, and are liable to be damaged by late frosts. It produces immense flower stems, 6 to 10 feet high, bearing a dense raceme of flesh-pink flowers, each nearly 2 inches across. Extra-strong flowering roots. 75 cts, each, $6 per doz.

**Himalaicus.** Another noble variety, 4 to 8 feet high, from the temperate Himalayan mountains. Bears a splendid raceme, nearly 2 feet long, of lovely pure white flowers as large as a fifty-cent piece. This is perhaps the hardiest and easiest grown of this magnificent genus. Strong-flowering roots, 75 cts. each, $6 per doz.

## THE GREAT ISMENE

Those who are familiar with the true Giant Ismene cannot say enough in praise of its beauty and purity. The flowers are of a very large size, like an Amaryllis, of novel form and snowy whiteness, and are also exceedingly fragrant. It is really one of the most lovely of all the great Amaryllis tribe, having a peculiar grandeur, which one can appreciate at sight, but cannot describe. Bulbs are large and strong and begin to flower in two or three weeks after planting, sending up tall flower-stems, which bear several of its magnificent blossoms. The bulbs are not hardy, and should be taken up in the fall and stored in a suitable place until spring. Splendid pot-plants for the home. 25 cts. each, $2.50 per doz.



Dielytra spectabilis (Bleeding Heart)

**If you grow Lily-of-the-Valley, why not try our Russian Brand?**

Montbretia Germania

# MONTBRETIAS

The Montbretias are one of the brightest of our summer-flowering bulbs, and deserve to be planted extensively. The bulbs should be set out during April or May, 3 to 6 inches apart, in clumps of a dozen or more. They should be protected during the winter with a heavy covering of leaves or litter.

## SIX NEW GIANT-FLOWERING VARIETIES

The following six varieties of new, giant-flowering Montbretias should be grown by everyone desiring the best. The type is so distinct from existing kinds as to justify recognition as an entirely new race. The flowers are held erect, sometimes as much as 4 inches across, and are borne on stems 3 or 4 feet high.

**Fire King.** Splendid glowing scarlet-red, decidedly one of the most beautiful and compares favorably with any of the new and more expensive sorts. 5 cts. each, 40 cts. per doz., $2.50 per 100, $20 per 1,000.

**George Davidson.** A splendid Montbretia. The stems are 3 to 4 feet high, eight- to ten-branched, bearing lovely, pale orange-yellow flowers 3 inches across; among the first to flower, and makes a glorious show in the garden. 5 cts. each, 50 cts. per doz., $3.50 per 100, $30 per 1,000.

**Germania.** Grows from 3 to 4 feet high, producing graceful, free-branching flower-spikes, bearing very large, widely expanded flowers 2 to 3 inches across. The color is a rich, glowing orange-scarlet, with red throat. 5 cts. each, 50 cts. per doz., $3.50 per 100, $30 per 1,000.

**Golden Sheaf.** A splendid new variety, produces tall, branching spikes and large, well-open flowers of a most beautiful pure golden yellow. Strong grower which attracts the eye in every collection. 5 cts. each, 40 cts. per doz., $2.50 per 100, $20 per 1,000.

**Kohinoor.** One of the finest Montbretias of its color; very much admired in our trial collection this past year. The general tone of the flower is pure orange, with an apricot base; broad petals which are very shapely and open quite flat; a strong and very free-flowering variety. 10 cts. each, 75 cts. per doz., $5 per 100, $40 per 1,000.

**Martagon.** Very showy and neat, the flowers reflexed as in the Martagon lily; color pale yellow with orange throat. 10 cts. each, 70 cts. per doz., $5 per 100, $40 per 1,000.

## THREE GOOD STANDARD SORTS

**California.** A beautiful, deep golden yellow, very recommendable; a profuse bloomer. 25 cts. per doz., $1.50 per 100, $12 per 1,000.

**Star of Fire.** Bright vermilion, center yellow, outside blood-red. 25 cts. per doz., $1.50 per 100, $12 per 1,000.

**Sunset.** Golden yellow. 15 cts. per doz., $1 per 100, $7.50 per 1,000.

**Prices on Montbretias are all express prepaid**

Tuberose

# TIGRIDIAS (Tiger, or Shell Flower)

These gorgeous summer-flowering bulbs look well associated with gladioli, lilies and kindred stock; grow about 1½ feet high and flower freely throughout the summer. They require the same treatment as gladioli and should be lifted in the autumn and dried off in the same way.

| | Each | Doz. | 100 |
|---|---|---|---|
| **Cœlestina.** A splendid sky-blue | $0 15 | $1 50 | $10 00 |
| **Pavonia grandiflora alba.** Ivory-white, yellow center, spotted | 10 | 75 | 5 00 |
| **Pavonia Canariensis.** Primrose-yellow | 10 | 75 | 5 00 |
| **Pavonia rosea.** Rose-pink, yellow-variegated center | 10 | 75 | 5 00 |
| **Pavonia speciosa.** Deep scarlet | 10 | 75 | 4 00 |
| **Pavonia, Le Geant.** Splendid bright scarlet, rose-and-yellow center | 15 | 1 50 | 10 00 |

**Above prices, express prepaid**

# TUBEROSES

One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. By skilful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed; and for a succession they can be planted at intervals as late as July. For flowering in the open border, plant about the middle of May, or as soon as the ground becomes warm.

**Excelsior Double Pearl.** First size, 5 cts. each, 35 cts. per doz., $2 per 100. Mammoth bulbs, 10 cts. each, 60 cts. per doz., $4 per 100, express prepaid.

**Armstrong's.** The single everblooming Tuberose. 50 cts. per doz., $3.50 per 100.

**Complete list of New and Rare varieties of Carnations and Chrysanthemums furnished on request**

# BEST EVERBLOOMING ROSES

Our Roses are budded on the cultivated seedling English Briar; are exceptionally strong and worth ten times more than Roses grown on marshy, wet soil, such as are generally offered at a low price. This class of Roses are continuous bloomers the entire summer, but are not entirely hardy in this section, and should be protected during the winter months with a covering of straw or any handy material. To obtain the best results, in addition to the covering of the tops, protect around the roots with 5 to 6 inches of well-rotted manure. This will give added strength to the plants, and additional bloom the following summer.

Gruss an Teplitz Roses

## GENERAL LIST OF EVER-BLOOMING ROSES

**Alice de Rothschild.** Rich, deep citron-yellow which intensifies as the blooms expand. This Rose belongs to the Tea family noted for the delicate fragrance and dainty coloring of its flowers.

**Betty.** Coppery yellow, overspread with golden rose; long, pointed bud and large, fairly full flower. When established this is a strong-growing and an unusually prolific variety.

**Captain Christy.** Delicate fleshy white, the center richer in color; very large and full; most useful early and late.

**Dean Hole.** Silvery carmine, shaded salmon; large, full flowers of fine form. A garden Rose of great merit.

**Etoile de France** (Star of France). Deep, velvety crimson; large petals of unusual substance; fragrant and of good form.

**Gustave Regis.** Canary-yellow; very long, pointed buds; good in autumn.

**Juliet.** Outside petals rich old-gold; interior rich rosy red.

**La France.** Beautiful bright pink Rose; large, full and fine form; free-blooming and one of the best, early and late; very highly perfumed.

**Mme. A. Chatenay.** Carmine-rose, shaded deep salmon; flowers fair size; very free.

**Mildred Grant.** Ivory-white with an occasional peach shading; enormous size and of wonderful lasting power in water. Magnificent exhibition variety.

**Mrs. Edward Mawley.** Bright carmine, shaded with salmon; a superb variety; chaste and perfectly formed flowers of marvelous beauty.

**Mrs. W. J. Grant.** Imperial pink; large flowers, well formed, with perfect high center; splendid.

**Richmond.** Deep, rich shade of crimson; splendid in bud form. Good bedding sort.

**The Lyon.** Easily recognized by its pleasing color. Flowers of large size, cup-shaped; warm coral-red with buff-yellow base.

**White Killarney.** Pure white, large flowers.

**50 cts. each, $5 per doz., $40 per 100**

## TEN GRAND EVERBLOOMING ROSES

The following ten varieties have been selected with a view to giving the amateur Rose enthusiast an opportunity to get the best varieties that will give a goodly share of blooms throughout the summer and autumn months, as well as to meet the requirements of those wishing the best varieties to select from, and being limited as to the amount they can spend.

**Caroline Testout.** Large, full, globular flowers of bright satiny rose, center a trifle brighter; a grand bedding Rose.

**Countess of Gosford.** A splendid, extremely free-flowering Rose of large size and perfect form, with full, long, pointed buds of a beautiful salmon-pink, the base of petals suffused with saffron-yellow.

**Gruss an Teplitz.** A charming variety, of deep, rich scarlet, shading to velvety crimson. A variety that is extensively used for bedding purposes, where its magnificence of color and profuse-blooming quality continues to be a matter of much comment.

**Jonkheer J. L. Mock.** Although introduced only five years ago, this beautiful Rose has quickly found its place among our best bedding varieties. The flowers, which are produced with the greatest freedom on long, stiff stems, are of large size and of perfect form; of a deep imperial-pink, the outside of the petals silvery rose-white; highly perfumed.

**Kaiserin Augusta Victoria.** Soft, pearly white, shading to creamy yellow; very double and sweetly fragrant. The formation of the flower is exquisite; growth erect and strong. A distinct and beautiful Rose, possessing many sterling qualities. Highly recommended.

**Killarney.** Perhaps the most widely known and popular Rose in existence. Color bright, sparkling pink, shading to white; long, pointed buds, opening into a large well-formed flower; very fragrant, hardy and extremely free-flowering. A most desirable garden Rose.

**Lady Ashtown.** One of the freest-flowering varieties in the collection, and produces perfect blooms under all weather conditions. The flowers are large, double, with high-pointed center, and are produced on long stems; splendid for cutting; in color a soft rose, shading to yellow at the base of the petals.

**Lady Faire.** A very beautiful Rose; flowers are of good size and form, of a light carmine-rose color, suffused with salmon, shading lighter toward the edges.

**Mme. Ravary.** Should be in every collection on account of its distinct color, which is of a rich, deep nankeen-yellow, becoming lighter as the flower expands. The flowers are of splendid form, full, double and very fragrant.

**Viscountess Folkestone.** One of the first Hybrid Teas introduced, and still the best of its color, which is a creamy pink, shading deeper at the center; large, full and very free.

**50 cts. each, $5 per doz.; $40 per 100**

**COLLECTION: One each of the 10 varieties, $4.50**

## FOUR GRAND NEW ROSES

**George C. Waud.** A beautiful variety from the celebrated Irish growers, Alex. Dickson and Sons, possessing a shade of color hitherto unknown among Roses—a glowing vermilion with orange-red suffusion. The flowers are large, full, of perfect form and highly tea-scented; the plant is of vigorous growth and very free-flowering. 50 cts. each, $5 per doz., $40 per 100.

**General Superior Arnold Janssen.** Deep, glowing carmine; large, full, deep flowers; finely formed buds, carried on erect, robust stems; very fragrant. An excellent Rose for bedding and cut-flower purposes. 75c. each, $7.50 per doz., $55 per 100

**Lady Hillingdon.** One of the most popular yellow Roses yet introduced. The color is true, clear yellow with orange shadings in the center. An excellent outdoor as well as indoor variety. 50 cts. each, $5 per doz., $40 per 100.

**Molly Sharman Crawford.** Introduced by the Messrs. Dickson about seven years ago as a Tea Rose. We have in our trials found it quite as hardy as the Hybrid Tea varieties, and we therefore include it in this set as the best white everblooming Rose. 50 cts. each, $5 per doz., $40 per 100.

# TEN BEST HARDY GARDEN ROSES

These are specially grown for us by one of the leading rosarians of England, where Roses develop firm wood and fibrous roots. They are much better adapted to our severe and changeable climate than the soft-wooded plants grown on the meadows of Holland, so generally sold here, and which so frequently cause disappointment.

Roses should be planted with the diverging roots at least 9 inches below the surface of the ground, the soil made firm about them and liberally watered. Bear in mind that Roses are gross feeders. The ground can hardly be made too rich for them, and during their blooming season liberal applications of liquid manure will result in more and finer blooms. While these hardy Roses do not absolutely require protection in winter, they will be all the better for it. Do not cover them, however, until after the top of the ground is frozen. Dead leaves, old strawy manure, or any garden litter can be used for covering. Roses are not injured so much by cold weather as they are by the alternate freezing and thawing which occurs during our winters. The covering will overcome this by keeping the soil about the roots more equable in temperature.

Our collection comprises the most select sorts of all colors and of the finest form.

Mrs. John Laing Rose

## HYBRID PERPETUALS

This class of Roses are perfectly hardy and bloom during June with an occasional, bloom in the autumn, and do not necessarily require protection in winter.

**Alfred Colomb.** Bright red, very large, full and globular; free-blooming and fragrant; a grand Rose.

**Frau Karl Druschki.** Snow-white; petals shell-shaped; very large, full, perfectly formed, opening well; a superb Rose.

**General Jacqueminot.** Brilliant crimson-scarlet, large and full; very fragrant. An excellent variety for all purposes.

**Margaret Dickson.** White, pale flesh center, petals very large, shell-shaped, and of immense substance, magnificent form; growth very vigorous. A very fine variety.

**Magna Charta.** Bright rose, very large and full; fine, early in the season.

**Mrs. John Laing.** Soft pink, very large and fine form; a good grower and abundant bloomer. A variety of special merit.

**Mme. Gabriel Luizet.** Light silvery pink; very free bloomer. A grand flower and quite distinct; best in early season.

**Paul Neyron.** Deep rose, flowers of enormous size, with fine foliage and growth.

Frau Karl Druschki Rose

**Hugh Dickson.** Brilliant crimson shaded scarlet; large, very fragrant and free flowering.

**Ulrich Brunner.** Cherry-crimson, of large size, fine form. A good garden or exhibition Rose.

**Price, 50 cts. each, $5 per doz., $35 per 100**

**COLLECTION, one each, ten varieties .....$4 50**

## Soleil D'Or, or Golden Sun

A distinct type. A cross between Persian Yellow and a hybrid perpetual color varying from orange-yellow to reddish gold, shaded with nasturtium red; conical-shaped buds opening to large, full, flat-shaped flowers; perfectly hardy and free-blooming. 50 cts. each, $5 per doz.

## MOSS ROSES

These are Roses that are very attractive in the border or shrubbery planting. The buds are surrounded by a mossy covering that makes the flowers attractive and unique, and adds variety to the collection of Roses.

**Blanche Moreau.** Pure white; large, full and very fragrant.

**Red Moss.** The best of the type. Very hardy and vigorous.

**50 cts. each, $5 per doz., $40 per 100**

## RAMANAS or RUGOSA ROSES

These lovely Roses form sturdy bushes 3 to 5 feet in height, covered with handsome, glossy green foliage and clusters of beautiful, fragrant, single flowers. They bloom nearly the whole summer, and are equally attractive during the autumn and winter when covered with their large, brilliant red seed-pods. Of healthy, vigorous growth, and equally desirable as specimens or a hedge. Require no pruning—merely cut out dead wood.

**Rugosa.** Rosy carmine; extra-large, single flowers.

**Rugosa alba.** Pure white; flowers contrast well with foliage.

**Extra-strong 2-year-old plants, 40 cts. each, $4 per doz., $30 per 100**

Dorothy Perkins Rose

# Hardy Climbing Roses

The following varieties of Rambler Roses, while few in number, might easily be considered as being among the very best. It is our aim to list only those of distinct merit. All Climbing Roses offered on this page are two- and three-year-old field-grown plants, and must not be confounded with inferior stock offered at cheap prices.

## SUPERB RAMBLERS

**American Pillar.** A decided acquisition. This beautiful, single-flowering variety is a rare beauty, and one of the most talked-of recent introductions. The flowers, often measuring 3 inches in diameter, of a beautiful shade of pink, are borne in large clusters and last in perfection a long time. The beautiful green foliage is retained until late autumn in true color, giving the plant an artistic effect much its own. Extra-strong plants, 75 cts. each, $7.50 per doz.

**Climbing American Beauty.** A fine new, free-blooming climber of excellent habit, strong and vigorous in growth, making heavy canes from 10 to 15 feet in a single season; rosy crimson flowers, produced freely in June and occasionally throughout the season; very fragrant; a fine Rose. Extra-strong plants. 75 cts. each, $7.50 per doz.

**Crimson Rambler.** This favorite is well known; one of the first introduced; beautiful crimson; flowers borne in huge clusters. Large-sized plants, 50 cts. each, $5 per doz.; extra-large, strong plants, 75c. each, $8 per doz.

**Dorothy Perkins.** A splendid climber; bright glossy foliage that always looks healthy, and beautiful clusters of pink flowers. It is highly recommended for general planting. Extra-large plants, 50 cts. each, $5 per doz. XX large-size plants, 75 cts. each, $7.50 per doz.

**Goldfinch.** We discarded the old yellow Rambler in favor of this new variety, in which we have a strong-growing plant with beautiful, glossy, insect- and disease-proof foliage. Flowers are of medium size, saffron-yellow, deepening to an almost golden yellow at the center. Strong plants, 75 cts. each, $7.50 per doz.

**Hiawatha.** Decidedly the most brilliant scarlet. The flowers often measure 1½ inches across, and are produced on long, pendulous sprays, frequently having fifty flowers to the spray. Its clear white eye and golden stamens, combined with its dazzling scarlet color, make a sight of much beauty. Like American Pillar, its foliage remains a lovely shade of green until late autumn. Extra-strong plants, 50 cts. each, $5 per doz.

**Lady Gay.** A variety of remarkably vigorous growth, flowers a delicate cherry-pink which gradually changes to soft tinted white. The effect produced by the combination of cherry-pink buds and the tinted white flowers, and the deep green of the foliage, is indeed most charming. Large-sized plants, 50 cts. each, $5 per doz.; extra-large-sized plants, 75 cts. each, $7.50 per doz.

**Tausendschon.** "A thousand times beautiful," is not overestimating the beauty of this new and distinct Rambler. The individual flowers are very large for this type of Rose, being fully 2 to 3 inches across, and of decidedly graceful form. Opening flowers pink, rosy carmine when expanded; are produced in large trusses of from ten to fifteen flowers. Extra-strong plants, 50 cts. each, $5 per doz.

## BEDDING ROSES

**Baby Rambler.** The best Bedding Rose; a continuous and free bloomer; very hardy and should be grown in every garden. 2-year-old plants, 50 cts. each, $5 per doz.

**Gruss an Teplitz.** A charming variety, of deep, rich scarlet, shading to velvety crimson. A variety that is extensively used for bedding purposes, where its magnificence of color and profuse blooming qualities continue to be a matter of much comment. 50 cts. each, $5 per doz.

## STANDARD or TREE-SHAPED ROSES

The following five varieties are among the best. The stems are about 4 feet high, strong and straight.

**Caroline Testout.** Bright satiny rose; everblooming.
**Frau Karl Druschki.** Best pure white hybrid perpetual.
**La France.** Beautiful bright pink; everblooming.
**Killarney.** Bright pink; everblooming.
**Ulrich Brunner.** Cherry-crimson. Hybrid perpetual.

**Strong plants, $1.50 each, $15 per doz.**

# HEDGE PLANTS

**California Privet.** One of the most satisfactory plants for hedges known at the present time. Glossy green foliage, easily kept in shape, and of fine symmetrical shape naturally.

| | 100 | 1,000 |
|---|---|---|
| 18 to 24 inches high, 2-year-old | $3 50 | $30 00 |
| 24 to 28 inches high, 2-year-old | 5 00 | 45 00 |
| 28 to 36 inches high, 3-year-old | 7 00 | 65 00 |
| 36 to 40 inches high, 4-year old | 9 00 | 80 00 |

All our Privet is extra fine and bushy, and is extra-well rooted. Special prices on large lots.

**Berberis Thunbergii.** From Japan. A pretty species of dwarf habit; small foliage, changing to a beautiful coppery red in autumn. Showy orange-yellow flowers in May, and succeeded by bright red fruit; very hardy, and the best low-growing hedge plant. Also valuable to grow as a shrub.

| | 100 |
|---|---|
| 3-year-old plants, 12 to 15 inches high | $12 00 |
| 4-year-old plants, 15 to 18 inches high | 16 00 |
| 5-year-old plants, 18 to 24 inches high | 18 00 |

Prices furnished on larger sizes and larger quantities, on application.

# HARDY CLIMBING PLANTS

## Ampelopsis Veitchii

**Sometimes called Boston Ivy and Japan Ivy**

This is the most deservedly popular of all climbing plants, being entirely hardy in the most exposed places and attaining a height of 30 feet in two or three years; clings to stones, brick or woodwork with the greatest tenacity. During the summer the leaves are a rich shade of green and lap over each other with great regularity, like a coat of mail or like slates on a roof. But it is in the fall that it shows its exquisite beauty. The leaves then change to the brightest tints of scarlet, crimson and orange, so dazzling as to be seen at a great distance. First-size plants, 25 cts. each, $2.50 per doz.; extra-size plants, 35 cts. each, $3.50 per doz.; pot-grown plants, extra strong, 75 cts. each, $8 per doz.

## Aristolochia Sipho (Dutchman's Pipe)

A native species, of climbing habit and rapid growth, with magnificent light green foliage 10 to 12 inches in diameter, and curious, pipe-shaped, yellowish brown flowers. 50 cts. each, $5 per doz.

## Bignonia Radicans (Scarlet Trumpet Vine)

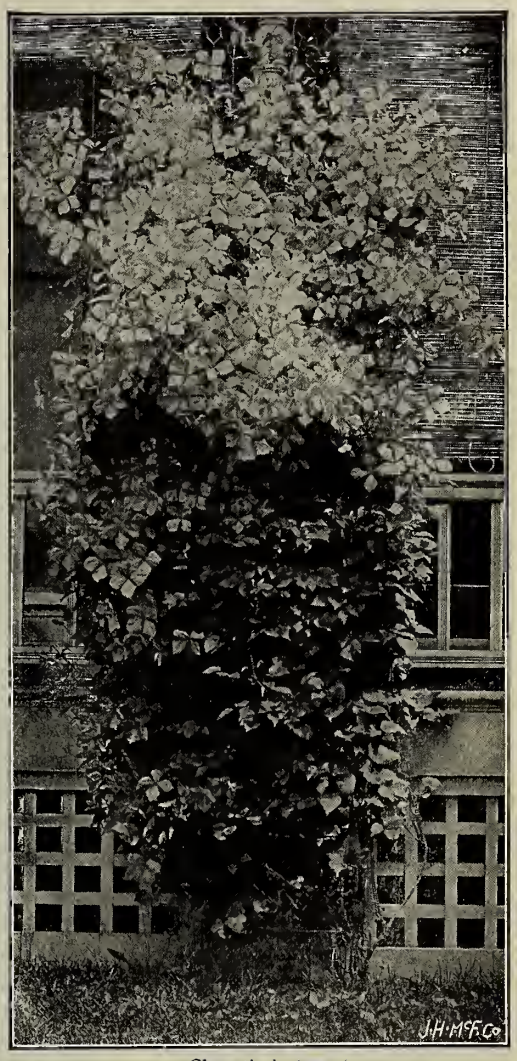
For covering unsightly places, stumps, rockwork or planting in crevices in ledges, the Bignonias will be found very useful. The flowers are large, attractive and showy, and borne profusely when the plant attains a fair size. 50 cts. each, $5 per doz.

# CLEMATIS

The Clematis we offer this season are exceptionally fine, strong 2-year-old plants. We have reduced the number of varieties to such sorts as, from experience, we know to succeed best in our climate. Many failures in the growing of Clematis are the result of too shallow planting. the crown of the roots should be set at least 3 inches below the surface of the soil.

## Small-Flowering Clematis

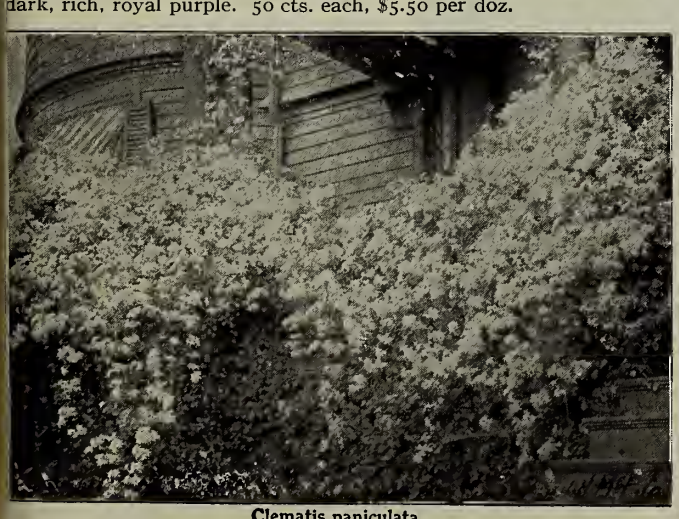
**Paniculata** (*Japanese Virgin's Bower*). This handsome hardy climber is one of the choicest and most satisfactory climbing flowering plants we know. The plant is of strong, rapid growth, with small, dense, cheerful green foliage, giving it a grace and elegance possessed by no other hardy climber. The flowers appear in the greatest profusion during August, and continue until late in the fall, are white in color and most deliciously fragrant. The plant succeeds in almost any position; not only is it well adapted to run up all kinds of supports, but is just as useful for planting among rockwork, sloping banks, covering graves, or, in fact, in any position where a graceful vine is desired. Selected, extra-strong plants, 50 cts. each, $5 per doz.; strong 2-year-old plants, 25 cts. each, $2.75 per doz.




Clematis Jackmani

## Large-Flowering Clematis

**Jackmani.** The best known and most valued variety of this popular family. A perfect mass of bloom when in full flower. Color, dark, rich, royal purple. 50 cts. each, $5.50 per doz.



Clematis paniculata

**Henryi.** Pure white; large and remarkably handsome. 50 cts. each, $5.50 per doz.

**Sieboldii.** Lavender-blue; large, strong, vigorous grower. 50 cts. each, $5.50 per doz.

**Ville de Lyon.** Bright red, well-formed flowers; a very fine variety. 50 cts. each, $5.50 per doz.

## Japanese Kudzu Vine

These roots are imported from Japan, and will, if planted early, grow 20 to 30 feet the first season. Very hardy and a first-class vine for general use. We offer selected, strong plants, for immediate effect, 50 cts. each, $5.50 per doz.

# HONEYSUCKLE

**Halliana** (Hall's Japan Honeysuckle). A strong, vigorous, almost evergreen sort; white flowers changing to yellow; very fragrant; flowering from July to December; holds its leaves nearly all winter. Extra-selected plants, 35 cts. each, $4 per doz.

**Scarlet Trumpet Honeysuckle.** This and its varieties are the handsomest in cultivation. It is a strong, rapid grower and produces scarlet, inodorous flowers. 50 cts. each, $5.50 per doz.

# WISTARIA

**Sinensis** (Chinese Wistaria). A most beautiful climber of rapid growth. When well established it makes a growth of 15 to 20 feet in a season. Flowers pale blue. Extra-strong plants, out of 6-inch pots, $1 each, $10 per doz.

**White.** Extra-strong plants, out of 6-inch pots, $1 ea., $10 per doz.

# HARDY HERBACEOUS PLANTS

**ACHILLEA, The Pearl.** Pure white flowers in profusion. 18 to 24 in. All summer. 15 cts. each, $1.50 per doz.
**tomentosa** (Woolly Yarrow). Handsome cut foliage and bright yellow flowers in a multitude of flat heads during June; height about 12 inches. 15 cts. each, $1.50 per doz.

**ACONITUM Napellus.** Flowers blue; very fine. 18 to 24 in. September and October. 25 cts. each, $2.50 per doz.
**Sparks' Variety.** A tall sort, growing 5 to 6 feet high; the darkest blue of all flowers in June. 25 cts. each, $2.50 per doz.
**Wilsoni.** Novelty recently introduced from China. The graceful flower-spikes attain a height of about 6 feet, and produce many fine pale blue or violet flowers. It blooms from the beginning of September until the end of October. 25c. each, $2.50 per doz.

**ADONIS (Bird's-Eye) Amurensis.** Large, single, yellow flowers. A variety from Japan; splendid for rockwork; blooms two weeks earlier than any other plant offered. 50 cts. each, $5 per doz.
**Amurensis fl. pl.** The double form of the above. 50 cts. each, $5 per doz.

**ALYSSUM rostratum** (Madwort). Bright golden yellow flowers in June and July; 1 foot. 25 cts. each, $2.50 per doz.
**saxatile compactum** (Basket of Gold, Gold Tuft, Rock Madwort). An indispensable plant for the rockery or border, growing 1 foot high, and producing, early in the summer, masses of broad, flat heads of bright yellow flowers. 15 cts. each, $1.50 per doz., $10 per 100.

**ANCHUSA Italica, Dropmore Variety.** A grand improvement on the old Italian Alkanet; grows 5 to 6 feet high and produces its pretty gentian-blue flowers throughout the entire summer; one of the best blue perennials. 25 cts. each, $2.50 per doz.
**Italica, Opal.** A splendid, lustrous light blue. 25 cts. each, $2.50 per doz.

## ANEMONE

**Honorine Joubert.** Pure white, large flowers; 18 to 24 inches. July to October. 15 cts. each, $1.50 per doz.
**Queen Charlotte.** Semi-double; light pink; 18 to 24 inches. July to October. 20 cts., each, $2 per doz.
**Whirlwind.** Semi-double; pure white; 2 to 3 feet. July to October. 15 cts. each, $1.50 per doz.
**Japonica rubra.** Beautiful rosy red, stamens bright yellow. 15 cts. each, $1.50 per doz.
**Prinz Heinrich.** New German variety, of dwarf, compact habit; very large, semi-double, dark red. 20 cts. each, $2 per doz.

Anemone, Whirlwind

**ANTHEMIS Kelwayi.** Flowers golden yellow; of dense, bushy habit. 12 to 18 inches. July to November. 20c. each, $2 per doz.

## AQUILEGIAS, or COLUMBINES

The Columbines are among the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising 2 feet or more above the beautifully divided foliage.

**Cærulea.** Bright blue-and-white, long-spurred flowers. 15 cts. each, $1.50 per doz.
**Flabellata nana alba.** Pure white; of dwarf growth, 12 inches. 15 cts. each, $1.50 per doz.
**Skinneri.** Flowers scarlet, with greenish tip. A very distinct variety. 12 to 18 inches. All summer. 20 cts. each, $2 per doz.
**Californica.** Large, yellow flowers, dark orange spurs. 12 to 18 inches. All summer. 15 cts. each, $1.50 per doz.

**ARABIS alpina.** Especially adapted for edging and for the rock-garden, but does equally well in the border, where it forms a dense carpet, completely covered with pure white flowers. Lasts for a long time in bloom. 15 cts. each, $1.50 per doz.
**alpina flore-pleno.** A distinct and pretty, double-flowering form. 25 cts. each, $2.50 per doz.

## FALL-FLOWERING HARDY ASTERS

**(Michaelmas Daisies, or Starworts)**

These are among the showiest of our late-flowering hardy plants, giving a wealth of bloom during September and October, a season when most other hardy flowers are past, and for the best effect should be planted in masses of one color. They grow freely in any soil.
**Formosissima.** Bright violet; 3 feet.
**Lævis.** Lavender-blue; 4 feet.
**Lævis Baldur.** Large; light Parma-violet; 2 feet.
**Lævis floribunda.** Light heliotrope; 4 feet.
**Novæ-Angliæ.** Bright violet-purple; 4 feet.
**Novæ-Angliæ, Mrs. F. W. Raynor.** Large; crimson-purple; 4 ft.
**Novæ-Angliæ rosea.** Bright purplish mauve; 4 feet.
**Puniceus pulcherrimus.** Bluish white with yellow center; incurved petals; 5 feet.
**Snowflake.** Very free; pure white; 18 inches.
**Tataricus.** Distinct large bluish violet; very late; 6 feet.
**Top Sawyer.** Clear Parma-violet color; 4 feet.
**White Queen.** Fine pure white; 4 feet.
**15 cts. each, $1.50 per doz., $10 per 100. Set of twelve varieties above, for $1.50.**

## SUMMER-FLOWERING HARDY ASTERS

The following grow from 15 to 18 inches high, and produce their showy flowers during July and August. Their free-flowering habit and compact growth makes them most desirable subjects for the front of the mixed border.
**Acris.** A neat variety, completely covered with violet-blue flowers.
**Amellus, Beauty of Ronsdorf.** Of a tender lilac-rose; perfect in form and entirely distinct.
**Amellus, Perry's Favorite.** A most distinct, bright, clear rose.
**Amellus preciosa.** A fine, deep violet-blue.
**Ptarmicoides.** Not a large flower, but produced in great masses. Fine for cutting.
**25 cts. each, $2.50 per doz. Set of five above sorts for $1**
**BELLIS perennis** (Double Daisy)—
**maxima, Red.** 4 inches. Spring. 10 cts. each, $1 per doz.
**maxima, White.** 4 inches. Spring. 10 cts. each, $1 per doz.

**BOCCONIA cordata.** A noble hardy perennial, beautiful in foliage and flower, admirably adapted for planting in the shrubbery borders, center of beds, and in bold groups in almost any position. It will grow in any soil or situation, attaining from 6 to 8 feet in height; flowers in terminal panicles, of a creamy white during July and August. 15 cts. each, $1.50 per doz.

**BOLTONIA asteroides.** Pure white. 15 cts. each, $1.50 per doz.
**latisquama.** Pink, slightly tinted with lavender. 4 to 6 feet. 15 cts. each, $1.50 per doz.

## CAMPANULA (Bellflowers)

**Medium** (Canterbury Bells). Our stock has been grown from the very finest strain; blue, rose and white. 3 feet.
**Persicifolia.** Large-flowering blue; very fine. 18 to 24 inches. July and September.
**Persicifolia alba.** Pure white form of the above.
**Price of all the above varieties, 15 cts. each, $1.50 per doz.**
**Persicifolia Moerheimi.** Beautiful, double, pure white, very large flowers. This variety is very compact and vigorous. 18 to 24 inches. June and July. 35 cts. each, $3.50 per doz.
**Pyramidalis** (Chimney Bellflower). The most conspicuous of all Campanulas, forming a perfect pyramid 4 to 6 feet high, crowded with large, salver-like, blue flowers. 25 cts. each, $2.50 per doz.

**CHELONE** (Shell Flower). Stately and handsome perennials, growing about 2 feet high and bearing numerous spikes of large flower-heads during the summer and fall.

**glabra alba.** Terminal spikes of creamy white flowers.

**Lyonii.** Heads of deep red flowers.

**obliqua alba.** Clusters of pure white flowers.

**25 cts. each, $2.50 per doz.**

**COREOPSIS lanceolata grandiflora.** One of the best perennials in cultivation, with large, lemon-yellow flowers on long stems. 2 to 3 feet. All summer. 15 cts. each, $1.50 per doz.

## HARDY POMPON CHRYSANTHEMUMS

These varieties have met with continued favor, and there is no cause for surprise, as they are well adapted for outdoor bedding. The blooms are borne in lavish profusion, giving color to the garden at a time of the year when all other plants have been destroyed by frost. Frost does not materially affect their flowering and frequently one is able to gather quantities of these beautiful blooms late in November. Should be planted in a well-drained position and given a slight covering of leaves or litter during the winter.

**Baby.** A miniature lemon-yellow.
**Boston.** Golden bronze.
**Cerise Queen.** Cerise-pink.
**Globe d'Or.** Clear lemon-yellow, with darker shadings.
**Golden Pheasant.** Rich, golden yellow.
**Gold Nugget.** Golden yellow, inner petals tinged red.
**Hijos.** Beautiful primrose.
**Julia Lagravere.** Rich garnet.
**King Henry.** Straw-white.
**Little Pet.** Violet-crimson.
**Model of Perfection.** Beautiful white.
**Mrs. Porter.** Bright bronze.
**Overbrook.** Chrome-yellow.
**Pettilant.** Soft creamy sulphur.
**President.** Rich purplish crimson.
**Rhoda.** Delicate apple-blossom-pink.
**Rosinante.** Blush-rose.
**Sir Michael.** Lemon-yellow.
**Souer Melanie.** Pure white.
**St. Illoria.** Silver-rose; quilled petals.
**Strathmeath.** Rosy pink.
**Sunshine.** Bright golden yellow.
**The Hub.** Fine white.
**Trojan.** Maroon, with yellow center.
**Victor.** Rosy crimson.

**All varieties, 10 cts. each, $1 per doz., $6 per 100. The set of 25 varieties for $2.**

## SHASTA DAISIES

*(Chrysanthemum Leucanthemum)*

**Burbank's "Alaska."** A decided improvement on the original; very free-flowering, with blooms 4½ to 5 inches across, of pure glistening white. 25 cts. each, $2.50 per doz.

**Burbank's Mixed Seedlings.** All have large, snowy white flowers, in bloom continuously throughout the entire summer and fall. 15 cts. each, $1.50 per doz., $10 per 100.

## DELPHINIUMS

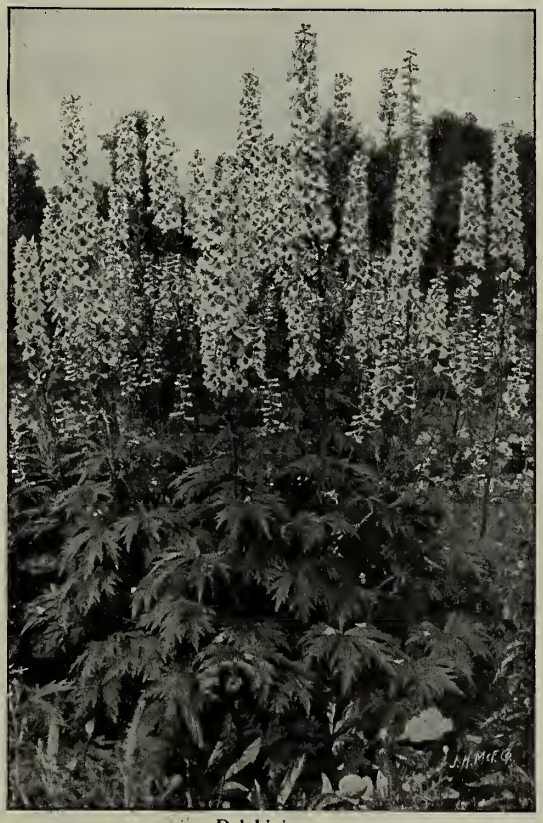
**Belladonna grandiflorum.** The stems of this new Belladonna are much stronger than the common sort, and the flowers, which are of the same fine sky-blue color, are much larger. A striking acquisition. 40 cts. each, $4 per doz.

**Formosum.** Beautiful dark blue, white center; 3 to 4 feet high. Very vigorous and free-flowering. 20 cts. each, $2 per doz.

**Formosum cœlestinum.** Sky-blue; very handsome. 25 cts. each, $2.50 per doz.

**King of Delphiniums.** One of the finest Delphiniums, with flowers of enormous size, semi-double, of a deep purple-blue color with white eyes. 50 cts. each, $5 per doz.

**J. S. Bruton.** Its beautiful flowers are of the finest sky-blue in the style of "Belladonna," but larger. It does not grow higher than 3 to 4 feet and produces an immense quantity of long, graceful spikes flowering throughout the whole summer. Of great value for cutting purposes. 50 cts. each, $5 per doz.



Delphiniums

**DICTAMNUS fraxinella** (Gas Plant). Showy border perennial forming a bush 2½ feet high having fragrant foliage, with showy rose-pink flowers. 15 cts. each, $1.50 per doz.

**albus.** Pure white variety of the above. 15c. each, $1.50 per doz.

**Caucasicus.** A gigantic form. Flowers double the size of the two preceding varieties. 25 cts. each, $2.50 per doz.

**DIGITALIS** (Foxglove). The Foxgloves, old-fashioned, dignified and stately, are wholesome company in any garden. The strong flower-stalks—frequently 4 to 6 feet high—rising from rich and luxuriant masses of leaves, always give an appearance of strength to the hardy border, and during their period of flowering dominate the whole garden.

**gloxiniæflora** (Gloxinia-flowered). A beautiful strain of finely spotted varieties. We offer them in White, Purple, Lilac, Rose or Mixed.

**ambigua,** or **grandiflora.** Pale yellow, veined brown.

**Lantana.** Distinct; produces dense spikes of odd-looking flowers, 2 to 3 feet high; corolla gray, the lip creamy white.

**15c. each, $1.50 per doz., $10 per 100. One each of the 6 colors, 75c.**

**DORONICUM** (Leopard's Bane). One of the most effective very early spring-flowering perennials, growing about 2 feet high. If placed in pots in the fall, they can readily be forced into flower during the winter months in the conservatory or window-garden. There are many who have seen this only as a single plant, here or there in a hardy border, and have no idea of the effect it has when planted in a mass. It is also a splendid flower for cutting, as it carries well and stands a long time in water, opening out morning after morning, to the surprise and delight of the possessor. They succeed everywhere.

**Caucasicum.** Very free-flowering; bright yellow.

**Clusii.** Rich yellow; 2½ to 3 inches across.

**excelsum.** Large; orange-yellow; 3½ inches across.

**25 cts. each, $2.50 per doz., $15 per 100. Set of 3 varieties for 65 cts.**

**EULALIA gracillima univittata** (Japan Rush). Of graceful habit, with very narrow foliage; of a bright green color, with a silvery midrib. 25 cts. each, $2.50 per doz.; clumps, 50 cts. each.

**EUPATORIUM ageratoides** (Thoroughwort). A useful border plant of strong, free growth, 3 to 4 feet high, with minute white flowers in dense heads; splendid for cutting. August and September.

**cœlestinum.** A pretty, hardy plant, with light blue flowers similar to the ageratum; in flower from August until frost; 18 to 24 inches.

**15c. each, $1.50 per doz., $10 per 100**

**FEVERFEW, Little Gem** (Matricaria). A most useful summer cut-flower, with large, double, white flowers; June until October; 12 to 15 inches high. 15 cts. each, $1.50 per doz., $10 per 100.

**GEUM** (Avens). Pretty border plants, growing about 18 inches high, and producing showy, bright-colored flowers the greater part of the summer and fall.

**coccineum.** Brilliant scarlet flowers. 15 cts. each, $1.50 per doz.

**Mrs. Bradshaw.** A new brilliant large double scarlet variety, fully double the size of the type, in bloom during the greater part of the summer and fall. 25 cts. each, $2.50 per doz.

**GYPSOPHILA paniculata.** An elegant, light and graceful perennial, forming a mass of thread-like stems, with an abundance of small, white flowers. 2 to 3 ft. July and August. 15 cts. each, $1.50 per doz.

**paniculata fl. pl.** This beautiful plant, which we consider to be the very best novelty that has been raised in the last few years, grows about 3½ feet high and its pure white flowers are perfectly double. They are produced in large quantities, and the plant is at least as graceful as the ordinary variety, so that it is of great value for decoration and cutting purposes. It is perfectly hardy. 25 cts. each, $2.50 per doz.

**GAILLARDIA grandiflora.** One of the most effective and showiest hardy flowering plants, with gorgeous flowers of bright yellow and orange, with deep crimson center. 18 inches. All summer. 15 cts. each, $1.50 per doz.

**HELIANTHUS** (Hardy Sunflower). The perennial Sunflowers are among the most effective hardy plants for large borders for planting among shrubbery, or as clumps on the lawn.

**Daniel Dewar.** The earliest to flower, bearing large, single, yellow flowers from early July till late August; 6 feet.

**Maximiliana.** The latest of all, perfecting its fine golden yellow flowers in long, graceful sprays during October, when all others have finished flowering; invaluable for cutting; 5 to 7 feet.

**mollis.** Large, single, lemon-yellow flowers, with downy white foliage; blooms in August and September; 4 feet.

**multiflorus fl. pl.** (Double Hardy Sunflower). Large, double dahlia-like golden-yellow flowers in great profusion during July and August; 4 feet.

**multiflorus maximus.** A gigantic single variety, growing from 5 to 6 feet high, producing immense single golden yellow flowers 6 to 8 inches across, August and September; one of the finest.

**Any of the above, 15 cts. each, $1.50 per doz., $10 per 100**

**HELENIUM** (Sneezewort). All of these are desirable border plants, succeeding in any soil in a sunny location, with broad-spreading heads of flowers.

**autumnale superbum.** Golden yellow flowers during the late summer and fall months; 5 to 6 feet.

**autumn rubrum.** New bright terra-cotta-red variety. 25c. each.

**Hoopesi.** Pure orange-yellow flowers, 2½ inches across, and the earliest to flower, coming in early in June. 2 feet.

**pumilum magnificum.** A most useful perennial, about 18 inches high, and smothered with its golden yellow blossoms all summer.

**Riverton Beauty.** Rich lemon-yellow, with large, purplish black cone. 25 cts. each.

**Price, except where noted, 15c. each, $1.50 per doz., $10 per 100. Set of 5 sorts, 75 cts.**

**HELIOPSIS** (Orange Sunflower). Similar in general habit to Helianthus, but commencing to flower earlier in the season; of dwarfer habit, rarely exceeding 3 feet in height; very valuable for cutting.

**Pitcheriana.** Flowers early and all summer. The flowers are of a beautiful deep golden yellow, about 2 inches in diameter, of very thick texture and a useful cut-flower. 15 cts. each, $1.50 per doz., $10 per 100.

**HEMEROCALLIS.** Fine, tall-growing plants, with sweet-scented, lily-like flowers.

**aurantiaca major.** Sweet-scented, trumpet-shaped, deep orange color. 3 feet. July and August. 25 cts. each, $2.50 per doz.

**Kwanso.** Double. Very free-flowering; copper-color. 4 feet. Summer. 15 cts. each. $1.50 per doz.

**flava** (Yellow Day Lily). The best known variety; very fragrant, deep lemon-yellow flowers in June and July. Height 2½ to 3 feet. 15 cts. each, $1.50 per doz.

**IBERIS** (Hardy Candytuft). Most desirable dwarf plants with evergreen foliage, which is completely hidden with dense heads of flowers early in the spring.

**sempervirens.** Innumerable flat heads of pure white flowers.

**Snowflake.** A grand variety, having exceptionally large and pure white flowers, and borne in great masses during May and June.

**15 cts. each, $1.50 per doz., $10 per 100**

## HOLLYHOCKS

We offer the best Double, Fringed and Single sorts as under:

**Double White** **Double Red** **Double Rose**
**Double Maroon** **Double Yellow** **Double Mixed**

**20c. each $2 per doz., $15 per 100**

**Newport Pink.** A charming variety, which originated in one of the famous gardens at Newport, R. I. It is of strong, vigorous habit, producing colossal spikes of very double, pure pink flowers, a shade that is eagerly sought for in all plants. 25 cts. each, $2.50 per doz.

**Alleghany.** Mammoth flowers, wonderfully formed of loosely arranged fringed petals, which look as if made from the finest China silk. The colors vary from the palest shrimp-pink to deep red. The plants are of strong growth, sending up spikes 6 to 7 feet high; mixed colors. 20 cts. each, $2 per doz., $15 per 100.

**Single.** Many prefer the single-flowering Hollyhocks. They are usually of freer growth than the doubles, and present a very handsome appearance when covered with their artistic blossoms. Choicest mixed varieties in all colors. 20c. ea., $2 per doz., $15 per 100.

**HEUCHERA sanguinea.** Bright crimson, lily-of-the-valley-shaped flowers. 1 to 2 feet. All summer. 15 cts. each, $1.50 per doz.

**LIATRIS** (Blazing Star, or Gay Feather). Showy and attractive native plants, succeeding anywhere, producing large spikes of flowers from July to September.

**pycnostachya.** Spikes of light, rosy purple flowers; 5 feet.

**scariosa.** Deep purple flowers in spikes 3 to 4 feet high.

**15 cts. each, $1.50 per doz., $10 per 100**

**LOBELIA.** Handsome border plants, thriving in any ordinary garden soil, but preferring a moist, deep loam, where they will not suffer from drought. Few plants are more effective at their season of bloom, which extends from early in August till late in September.

**cardinalis** (Cardinal Flower). Rich, fiery cardinal flowers; strong plants, often producing ten to eighteen spikes, 12 to 24 inches long. 15 cts. each, $1.50 per doz., $10 per 100.

**LUPINUS polyphyllus** (Lupine). Very effective, hardy garden plant. May be planted in fall or early spring. Clear blue. 25 cts., each, $2.50 per doz., $15 per 100.

**polyphyllus albus.** A white variety of above. 25 cts. each, $2.50 per doz., $15 per 1,00.

**Moerheimi.** A comparatively new variety and a plant that, on account of its clean bold growth, always attracts attention. The spikes of flowers are frequently over a foot long, in color superb, being a combination of light and dark shades of pink without a trace of magenta. 35 cts. each, $3.50 per doz.

**LYCHNIS Chalcedonica.** Brilliant scarlet flowers all summer. Grow 2 to 3 feet high. 15 cts. each, $1.50 per doz.

**vespertina alba plena.** This very free-flowering, double, white Lychnis is one of the best and most effective border plants, also useful for cutting; flowers during the whole summer. Very rare. 15c. each, $1.50 per doz.

**viscaria fl. pl.** (Ragged Robin). Deep red, double flowers; May to July; plants 1½ feet high. 15 cts. each, $1.50 per doz.

**Haageana Hybrids.** White to pink and deep red; May to July. Plants 1½ feet. 15 cts. each $1.50 per doz.

**MONARDA didyma** (Oswego Tea). Flowers bright scarlet; plants very showy; 2 to 3 feet high; during July and August. 15 cts. each, $1.50 per doz.

**rosea** (Bee Balm). A pretty rose-colored form. 15 cts. each, $1.50 per doz.

Double Hollyhocks

Japanese Iris

# JAPANESE AND GERMAN IRIS

The Japanese and German Irises are perfectly hardy, and flower in greatest profusion.

German Iris usually flowers in June and the Japanese in July, and attain their greatest perfection if grown in moist soil, or if plentifully supplied with water while growing and flowering. Our stock is *American-grown*, and no effort is spared to keep it true to name and color. They are thoroughly acclimated and hardy.

The varieties offered below have been chosen from a list of the finest Japanese and German sorts, which were tested out, and only the best and most distinct varieties grown. We offer below six of the best "double" varieties, or six-petal, and six of the "single," or three-petal sorts of Japanese Iris. Both are equally valuable as cut-flowers, for which purpose they should be cut in a bud state, permitting the blooms to expand after being placed in water. Our selection of German Iris consists of the best twelve varieties.

Delivery can be made at any time desired. Early fall, however, is the best time to plant, as it gives the plant a splendid chance to get established before winter sets in. We furnish plants with three to four shoots, and all will flower the first season after planting. A great mistake is made in planting unusually large clumps of Japanese and German Iris, as not infrequently they die out in the center of the clump during the first winter, thereby making an unsightly effect the following summer, and necessitating lifting, dividing and replanting.

## JAPANESE IRIS (*Iris Kaempferi*)

### Double Varieties

**Gold Bound.** Pure white; one of the finest.
**La Favorite.** Large; ground-color white, freely veined deep blue.
**Mahogany.** Deep, dark red, shaded maroon; most beautiful.
**Mount Hood.** One of the finest light blues, shaded darker blue.
**Oriole.** Magnificent crimson, with bright golden orange center.
**Pyramid.** Lilac-blue, veined white in center of each petal.

### Single Varieties

**Apollo.** Beautiful pure white, center light pink.
**H. von Sieboldt.** Reddish, veined white, center bright yellow.
**Lavender Queen.** Beautiful deep shade of lavender.
**Undine.** White, shaded light blue toward the center.
**Shadow.** A grand self-color, deep purple, shaded red.
**Toledo.** White, center light purple, one that you should not fail to grow, even in a limited collection.

**Any of the above sorts, 15 cts. each, $1.50 per doz., $10 per 100**

## GERMAN IRIS (*Iris Germanica*)

**Admiral Togo.** White, faintly tinged lavender; falls and standards lightly bordered purple. Of the habit of Madam Chereau.
**Brooklyn.** Standards lavender, yellow at base; falls pale blue, base veined brown on a white ground.
**Charles Dickens.** Standards blue; falls dark blue, suffused and veined dark violet; anthers white, tipped yellow.
**Florentina alba.** An excellent variety for cutting and an early bloomer. Flowers ivory-white, tinged with lilac. The "orris" of commerce.
**Hokanum.** Standards yellow, blotched with brown; falls rich purple, flecked with white, base tinted yellow.
**Lizzie.** Standards pure yellow; falls dark, bronzy crimson.
**Madam Chereau.** Pure white, edged with azure-blue; falls deep white with blue penciling.
**Mrs. H. Darwin.** Very fine, large white.
**Parisensis.** Uprights fine blue; falls deep blue; large and very early; fine companion to Florentina alba.
**Rebecca.** Standards golden yellow; falls yellow and brown.

**Any of the above sorts, 10 cts. each, $1 per doz., $6 per 100**

**Pallida Dalmatica.** This is the grandest variety of all the German Irises. Color deep, clear lavender; very large flowers, sweet-scented. This Iris should be planted largely where cut-flowers are in demand, as it is certainly the best of its class. A grand variety for massing in borders; it is superb. 25 cts. each, $2.50 per doz., $20 per 100.

# HERBACEOUS PEONIES

## TWENTY MODERN VARIETIES

Peonies rank among the most beautiful of all hardy perennials, and no garden is complete without their charming influence. The popular interest in many parts of the world has brought a very gratifying improvement in the Peony. In the newer sorts gigantic flowers have been produced, reaching, in many instances, the large size of 7 to 9 inches in diameter and 5 to 6 inches in depth, with strong, stiff stems 2½ to 3 feet long. The permanency of the Peony should especially recommend them to your favor; for, once planted in suitable soil, they will continue to grow better and larger each year.

| | Strong 2-yr.-old roots | | Strong 3-yr.-old clumps | |
|---|---|---|---|---|
| | Each | Doz. | Each | Doz. |
| **Alba plena.** Immense, pure white flowers; of robust habit and a very free bloomer | $0 35 | $3 50 | $0 50 | $5 00 |
| **Berlioz.** (Crousse.) Brilliant dark red, tinted rose; flowers very large size, imbricated. A fine dwarf grower; excellent keeper | 50 | 5 00 | 75 | 7 50 |
| **Candidissima.** (Calot.) Large, cream-white guard petals; center sulphur-yellow, with green heart, very full and compact; habit slightly drooping. The earliest of the white- and-yellow varieties | 35 | 3 50 | 50 | 5 00 |
| **Couronne d'Or.** (Calot.) Large, flat, semi-rose type; pure white, with a ring of yellow stamens around a tuft of center petals, tipped carmine. Medium tall, vigorous grower and free bloomer. Late | 50 | 5 00 | 75 | 7 50 |
| **Duchesse de Nemours.** (Calot.) Guard petals white, center lemon-yellow with greenish reflex. Large, cup-shaped, full bloom; fragrant | 75 | 7 50 | 1 25 | 12 50 |
| **Duc de Wellington.** (Calot.) Very large, well formed, sulphur-white bloom; habit ideal; stems very firm and long. Strong grower; very fragrant. Scarce | 75 | 7 50 | 1 25 | 12 50 |
| **Edulis superba.** (Lemon.) Large, loose bloom of dark pink of even color, flat when fully open; fragrant; upright, strong-growing plant. Early. | 75 | 7 50 | 1 25 | 12 50 |
| **Festiva maxima.** (Miellez.) In some respects this is yet a peerless flower—Queen of the Whites. Though introduced more than fifty years ago, it is almost impossible to supply the demand. It is an immense white flower, with drops of carmine sprinkled in the center. An early bloomer and a good keeper | 50 | 5 00 | 85 | 8 50 |
| **L'Indispensable.** Lilac-white, shading to pale violet-rose toward the center | 1 00 | 10 00 | 1 50 | 15 00 |
| **Lady Bramwell.** Although of unknown origin, a splendid Peony. Beautiful early flower of glossy pink; very fragrant | $0 50 | $5 00 | $0 75 | $7 50 |
| **Louis Van Houtte.** (Calot.) Rich, glowing purplish pink, tipped with silver; very brilliant coloring; fragrant, medium-large flower | 50 | 5 00 | 75 | 7 50 |
| **Mme. Chaumy.** (Calot.) Globular; soft pink, much like Lady Bramwell, only larger and later | 50 | 5 00 | 75 | 7 50 |
| **Mme. de Verneville.** (Crousse.) Very full bloom, sulphur-white, broad guard petals | 75 | 7 50 | 1 25 | 12 50 |
| **Meissonier.** (Crousse.) Globular; brilliant purplish red; slightly fragrant; free bloomer; stems long; habit of plant medium tall | 75 | 7 50 | 1 25 | 12 50 |
| **Monsieur Barral.** (Calot.) Very large, compact, rose type; uniform, pale lilac-rose; fragrant; free bloomer | 75 | 7 50 | 1 25 | 12 50 |
| **Mons. Jules Elie.** (Crousse.) Immense, globular, full flower, imbricated rosiform; broad petals of finest, glossy, flesh pink, deeper tint at base of the petals | 1 00 | 10 00 | 75 | 7 50 |
| **Queen Victoria.** Large, full, compact bloom, with fine, broad guard petals; opens flesh-white, center petals tipped with red blotches. One of the best cut-flower varieties, as it is an exceptional shipper and keeper | 50 | 5 00 | 75 | 7 50 |
| **Rosea grandiflora.** Beautiful pale rose; large, globular flower; very fragrant | 50 | 5 00 | 75 | 7 50 |
| **Rubra triumphans.** (Guerin.) Very early; bright purplish crimson; large flower. Often blooms single the first year | 50 | 5 00 | 75 | 7 50 |
| **Van Dyck.** (Crousse.) Large, globular, loose-crown flower; guard petals and center pure mauve, collar cream-white. Erect grower; blooming in midseason | 50 | 5 00 | 75 | 7 50 |

# HARDY PHLOX

The Hardy Phloxes are, without doubt, the most important of all hardy perennials, and are now to be found in nearly every garden. They succeed in almost any kind of soil or position, and flower from early summer until late in the fall. They also improve from year to year and contain a range of brilliant colors not found in any other hardy plant. We have a very fine collection of them.

CULTURE.—Hardy Phlox may be planted in spring or fall; a mulch of old manure thrown around the roots will be of benefit to the plants. Phlox should be set out 18 inches apart, and if kept well watered will produce both individual blossoms and heads of bloom far larger than otherwise, and amply repay the extra trouble. To procure best effects, plants should be massed in from six to twelve clumps of each variety.

## Ten Hardy Phloxes of Special Merit

It is difficult, out of the great number of varieties of Hardy Phlox, for the amateur who desires a limited number of varieties always to get the best. While all the varieties listed are entitled to a place in a good collection, the following ten are in every way among the best.

**Price, except where noted, 30c. each, $3 per doz., $18 per 100**

**Europa.** A white variety with very decided crimson-carmine eye; the individual flowers, as well as the trusses, are very large; entirely distinct.

**Elizabeth Campbell.** Very bright salmon-pink, with lighter shadings and a dark crimson eye. An entirely new and much-wanted shade in Phlox.

**Frau Anton Buchner.** The finest white variety yet introduced, having the largest truss and individual flowers; dwarf habit.

**Gefion.** A new color in Hardy Phlox—a tender peach-blossom-pink, with bright rose eye. A grand and very attractive variety.

**Rheinlander.** A beautiful salmon-pink, with flower and trusses of immense size; the color of the flower is intensified by a very decided eye of deep claret-red.

**Thor.** Bright orange-scarlet, overlaid with salmon-pink, with deep claret-red eye. 50 cts. each, $5 per doz.

**W. C. Egan.** One of the best and largest-flowering varieties in our collection. Panicles of immense size and of a delicate pleasing shade of lilac, which is illuminated by a large, bright solferino-red eye.

**Widar.** A splendid improvement on Edmund Rostand. Color a light reddish violet, with a large white center, which intensifies the color.

**Tragedie.** Deep, brilliant carmine, with a blood-red eye; a very attractive variety for massing.

**Wanadis.** Entirely distinct. A mottling of white and light violet, reminding one of the native *Phlox divaricata*. The color is intensified by a bright reddish purple eye; a strong grower, producing trusses of immense size.

**COLLECTION: One each of the 10 sorts (10 plants), $3**

## GENERAL COLLECTION OF HARDY PHLOX

**Price of any of the varieties listed below, 15 cts. each, $1.50 per doz., $10 per 100**

**Albion.** Medium. Very large panicles of pure white flowers, with faint aniline-red eye.
**Bacchante.** Tall. Tyrian rose, with crimson-carmine eye.
**B. Comte.** Medium. Brilliant French purple, with crimson-carmine shadings.
**Coquelicot.** Dwarf. A fine pure scarlet, with crimson-red eye.
**Eclaireur.** Tall. Brilliant rosy magenta, with large lighter halo.
**George A. Strohlein.** Medium. Bright scarlet, with crimson-red eye; does not bleach.
**Henry Murger.** Tall. White, crimson-carmine center.
**H. O. Wijers.** Tall. White, with bright crimson-carmine eye.
**Henry Marcel.** Medium. Pure red, with bright salmon shadings.
**Jeanne d'Arc.** Tall. Good; standard; late white.
**Jules Cambon.** Medium. Bright rosy magenta, with large white center and light halo.
**La Vague.** Medium. Pure mauve, with aniline-red eye.
**L'Evenement.** Dwarf. Orange-scarlet, overlaid with salmon-pink.
**Louise Abbema.** Dwarf. Very large; pure white; fine form.
**Mme. Paul Dutrie.** Tall. A delicate lilac-rose, reminding one of some of the beautiful soft pink orchids.

G. A. Strohlein Phlox

### GENERAL COLLECTION OF HARDY PHLOX, continued

**Mrs. Jenkins.** Tall. The best tall, early white for massing.
**Obergartner Wittig.** Medium. Bright magenta, with crimson-carmine eye; large flower and truss. One of the best.
**Pantheon.** Medium. Uniform bright carmine-rose throughout; very effective,
**Professor Virchow.** Medium. Bright carmine, overlaid with orange-scarlet.
**R. P. Struthers.** Tall. Rosy carmine, with claret-red eye; fine.
**Selma.** Tall. Large flower; pale rose-mauve, with claret-red eye.
**Siebold.** Tall. Bright vermilion red, overlaid with orange-scarlet; crimson-red eye.
**Sunshine.** Dwarf. Large; aniline-red, with crimson-red eye and light halo.
**Von Hochberg.** Tall. Bright French purple. One of the finest dark-colored varieties.
**Von Lassburg.** Medium. The purest white in cultivation; individual flowers larger than in any other white.

## Early-Flowering Hardy Phlox

(*Phlox suffruticosa*)

**Miss Lingard.** A grand white variety, which begins flowering after the middle of June and continues throughout the season. Extensively used for cut-flowers. 20 cts. each, $2 per doz., $12 per 100.

## Phlox subulata (Moss or Mountain Pink)

**15 cts. each. $1.50 per doz., $10 per 100**

An early spring-flowering type, with pretty, moss-like, evergreen foliage which, during the flowering season, is hidden under the masses of bloom. An excellent plant for the rockery, the border, and invaluable for carpeting the ground or covering graves.

**Alba.** Pure white.
**Atropurpurea.** Purplish rose.
**Bridesmaid.** Purplish, tinted white.
**Lilacina.** Light lilac.
**Nelsoni.** Pure white.
**Rosea.** Bright rose.

Oriental Poppy

**PENTSTEMON** (Beard Tongue). Most useful showy perennials, either for the border or rockery. With the exception of Sensation, they are perfecty hardy.

**gloxinioides, Sensation.** A beautiful strain, bearing spikes of large, gloxinia-like flowers in a great variety of bright colors, including rose, cherry, crimson, purple, lilac, etc. The plants grow 2½ feet high, and bloom from early summer till frost. For bedding they rival the phloxes, petunias, etc. Must be given protection in winter.

**barbatus Torreyii.** Spikes of brilliant scarlet flowers. 3 to 4 feet. June to August.

**Digitalis.** Large spikes of long, purple-white flowers, with purple throats, during June and July. 2 to 3 feet.

**heterophyllus.** Large, azure-blue flowers in summer. 2 feet.

**ovatus.** Bright blue, shaded bronzy purple. July to September. 2 ft.

**pubescens.** Bright rosy purple. July and August. 1½ feet.

**15 cts. each, $1.50 per doz., $10 per 100**

**PHYSALIS Francheti** (Chinese Lantern Plant). An ornamental variety of the Winter Cherry, forming dense bushes about 2 feet high, freely producing bright orange-scarlet, lantern-like fruits; highly interesting. 15 cts. each, $1.50 per doz.

**PHYSOSTEGIA** (False Dragon-Head). One of the most beautiful of our midsummer flowering perennials, forming dense bushes 3 to 5 feet high, bearing spikes of delicate tubular flowers not unlike a gigantic heather.

**Virginica.** Bright but soft pink.

**Virginica alba.** Pure white; very fine.

**Virginica speciosa.** Very delicate pink.

**15 cts. each, $1.50 per doz., $10 per 100**

**HARDY GARDEN PINKS.** Old favorites, bearing their sweet, clove-scented flowers in the greatest profusion during May and June. They are indispensable for the edge of the hardy border and for cutting. 1 foot.

**Delicata.** A new, self-colored variety, of a most delicate silvery mauve, a shade peculiar to some of the orchids. 25 cts. each.

**Diamond.** A fine extra-early, fringed white.

**Elsie.** Bright rose, maroon center.

**Excelsior.** Light rose-pink, shaded darker.

**Gloriosa.** A new sort of a pleasing shade of lilac-mauve, with deeply fringed flowers. 25 cts. each.

**Her Majesty.** Large flowers of purest white.

**Homer.** Rosy red with dark center.

**Juliette.** White, laced crimson.

**Snow.** A fine pure white.

**White Reserve.** An everblooming pure white.

**William Hooper.** Fringed white flowers, with crimson-purple lacing.

**15 cts. each, $1.50 per doz., except where noted. The set of 11 varieties, $1.50**

**PLATYCODON.** These are sometimes called Campanulas, to which they are closely allied. Form neat plants, bearing a succession of flowers on upright stems.

**grandiflora cærulea.** Fine blue flowers. June to October. 18 inches. 15 cts. each, $1.50 per doz.

**grandiflora alba.** White. June to October. 18 inches. 15 cts. each, $1.50 per doz.

**PLUMBAGO Larpentæ** (Leadwort). Of dwarf, spreading habit, growing 4 to 6 inches high; useful as an edging plant or for the rockery; covered with beautiful deep blue flowers during the summer and fall months. 15 cts. each, $1.50 per doz., $10 per 100.

## ORIENTAL POPPIES

(*Papaver orientale*)

Everyone is familiar with the gaudy Oriental Poppies, and doubtless many are aware that during the last few years hardy plantsmen in England, Holland, etc., have been working hard on their improvement, with the result that today we have quite a host of new varieties and in many lovely colors. We offer the following distinct varieties:

**Goliath.** Fiery scarlet.

**Princess Victoria Louise.** Salmon-pink.

**Mahony.** Dark crimson-maroon, shaded mahogany.

**Mrs. Perry.** Salmon-rose.

**Trilby.** Brilliant red.

**25 cts. each, $2.50 per doz.; set of 5 varieties, $1**

**Finest Mixed Varieties.** 15c. ea., $1.50 per doz., $10 per 100.

**New White Oriental Poppy. Perry's White.** A sterling novelty and the most distinct break that has yet been made in the Oriental Poppies, it being a pure satiny white, with a bold crimson blotch at the base of each petal. This is, unquestionably, the most important addition to our list of hardy perennial plants this season. Strong, flowering size, 50c. ea., $5 per doz.

**PRIMULA** (Primrose). The hardy Primroses are among the most beautiful and interesting of our early spring flowers. Plant them in rich, well-drained soil, in the border or in a sheltered nook in the rockery; if possible, in a half-shady place.

**veris** (English Cowslip). Plants grown from a select strain of seed, and embrace a fine range of colors. 10 cts. each, $1 per doz., $8 per 100.

**veris superba.** A giant-flowered form, producing individual flowers from 1 to 2 inches across; in color they are a bright canary-yellow with a golden center; perfectly hardy, and when in flower present a sheet of bloom. 20 cts. each, $2 per doz., $15 per 100.

**vulgaris** (English Primrose). An old favorite, and should be found in every garden; one of the earliest spring flowers; of bright canary-yellow; very fragrant. 15c. each, $1.50 per doz.

**PYRETHRUM hybridum fl. pl.** Too much cannot be said in favor of this grand hardy perennial, which will thrive in any good garden soil where there is good drainage and full exposure to the sun. The main season of blooming is in June, but if the old-flower-stems are removed they will give a fair sprinkling of flowers in the autumn. Splendid for cutting. We offer choice named sorts in Crimson, Pink and White. 35 cts. each, $3.50 per doz. One each of the three colors, $1.

**hybridum, Single.** In choicest mixture. 15 cts. each, $1.50 per doz., $10 per 100.

**uliginosum** (Giant Daisy). Grows 4 to 5 feet high, and is covered with large, white, daisy-like flowers, 3 inches in diameter, from July to September. 15 cts. each, $1.50 per doz., $10 per 100.

**uliginosum stellata.** A greatly improved form of the Giant Daisy, and, like its parent, has flowers of glistening white, but fully one-half larger, with long, narrow petals, forming a much more graceful and refined flower. The best and most useful Daisy for cutting during August and September. 25 cts. each, $2.50 per doz.

## RUDBECKIA (Coneflower)

**Golden Glow.** A well-known popular plant; a strong, robust grower attaining a height of 5 to 6 feet, and produces masses of double golden yellow cactus-dahlia-like flowers from July to September.

**Maxima.** A rare and attractive variety, growing 5 feet high, with large glaucous green leaves and bright yellow flowers 5 to 6 inches across, with a cone 2 inches high; flowers continuously from June to September. 25 cts. each, $2.50 per doz.

**Newmanii.** Dark orange-yellow flowers, with deep purple cone, borne on stiff, wiry stems 3 feet high; flowers from July to October.

**Purpurea** (Giant Purple Coneflower). Flowers about 4 inches across, of a peculiar reddish purple with a remarkably large, cone-shaped center of brown; forms bushy plants 3 feet high, and blooms from July to October.

**15 cts. each, $1.50 per doz., $10 per 100, except where noted**

**SALVIA azurea** (Meadow Sage). A Rocky Mountain species; grows 2 to 3 feet high, producing during August and September pretty sky-blue flowers in the greatest profusion. 25c. ea., $2.50 per doz.

**Pitcheri.** Similar to the above, but of more branching habit and larger flowers of a deeper blue color. 25 cts. each, $2.50 per doz.

**virgata nemorosa.** A new and interesting plant for the hardy border, forming a rosette of large foliage, from which the flower-spikes arise, bearing many-flowered whorls of dark blue blossoms; the unexpanded buds are light violet-blue, forming a harmonious and pleasing color combination. It continues in flower for about six weeks during the early summer months. 35c. ea., $3.50 per doz.

**uliginosum.** In general habit, similar to *Salvia azurea* and *S. Pitcheri*, but of stronger growth, the plants forming bushy specimens, 5 to 6 feet high, of wonderful free-flowering habit. It flowers continuously from June until stopped by severe frost in October. The flowers are of a pretty cornflower-blue, with a white throat, and are produced in branched spikes, frequently 6 inches long. 25 cts. each, $2.50 per doz.

**SCABIOSA Caucasica.** One of the handsomest hardy plants, with flowers of a beautiful soft lilac color; fine for cutting. All summer. 18 inches. 15 cts. each, $1.50 per doz.

**SEDUM** (Stonecrop). Suitable for the rockery, carpet-bedding, covering graves, etc.

**acre.** The foliage of this is a distinct attraction in itself, being of a yellowish green shade; for covering rockeries, in borders or beds on cemetery lots it is indispensable. The flowers, which appear in July, are bright yellow and last a long while. 6 inches.

**album.** Green foliage; white flowers. 6 inches.

**Sieboldii.** Roundish foliage with a blue cast; the flowers, which appear in August and September, are bright pink.

**spectabile.** This variety grows about 18 inches and flowers in June; foliage light green; immense heads of pink flowers.

**spectabile, Brilliant.** One of the prettiest tall-growing species, reaching a height of about 18 inches; broad, light green foliage and richly colored flowers of amaranth-red. September and October. 25 cts. each, $2.50 per doz., $15 per 100.

**15 cts. each, $1.50 per doz., $10 per 100, except where noted**

**SPIRÆA** (Goat's Beard, Meadow Sweet). Elegant border plants, with feathery plumes of flowers and neat, attractive foliage; succeed best in a half-shaded location in rich, moist soil.

**Aruncus.** A noble variety, 3 to 5 feet high, producing in June and July long, feathery panicles of white flowers. 15 cts. each, $1.50 per doz.

**Chinensis.** A handsome species, with large heads of silvery pink flowers in June and July. 2 feet. 25 cts. each, $2.50 per doz.

**palmata** (Crimson Meadow Sweet). One of the most beautiful hardy plants, the deep purple-red of the stems and branches passing into the crimson-purple of the broad corymbs of flowers, which are produced very freely during June and July. 3 feet. 15 cts. each, $1.50 per doz.

**venusta magnifica.** A new variety and a decided improvement on *S. venusta*, with richer and more intense rosy red, fragrant flowers, blooming during June and July. A splendid plant for low, wet ground. 50 cts. each, $5 per doz.

**STATICE latifolia** (Great Sea Lavender). A most valuable plant either for the border or rockery, with tufts of leathery leaves and immense candelabra-like heads, frequently 2 feet across, of purplish blue, minute flowers from June to September; these, if cut and dried, last for months. 15 cts. each, $1.50 per doz.

**STOKESIA cyanea** (Cornflower Aster). A beautiful native plant. Grows from 18 to 24 inches high, bearing freely from early in June until October its handsome lavender-blue cornflower-like blossoms, which measure from 4 to 5 inches across. It is of the easiest culture, succeeding in any open, sunny position, and not only is it desirable as a single plant in the hardy border, but it can also be used with fine effect in masses or beds of any size.

**cyanea alba.** Pure white variety of above.

**15 cts. each, $1.50 per doz., $10 per 100**

**SWEET WILLIAM** (*Dianthus barbatus*). We offer a superb strain which we can supply either in a choice mixture or in the following separate colors; Newport Pink, Scarlet and White. 10 cts. each, $1 per doz., $8 per 100.

**TRITOMA.** Hardy, if given protection, but the most satisfactory method of wintering is to bury the roots in sand in a cool cellar.

**Pfitzeri** (The Everblooming Flame Flower). The freest-flowering variety in cultivation; in bloom from August to November, with spikes from 3 to 4 feet high and heads of bloom over 12 inches long, of a rich orange-scarlet, producing a grand effect either planted singly or in masses. 15 cts. each, $1.50 per doz.

**TROLLIUS** (Globe Flower). Hardy perennials, flowering freely from May until August. 2 to 2½ feet.

**Japonicus, Excelsior.** Very deep orange flowers. 25 cts. each, $2.50 per doz.

**Caucasicus, Orange Globe.** A new variety, with large, deep orange-colored flowers. 25 cts. each, $2.50 per doz.

**VALERIANA coccinea** (Spurred Flower). Showy heads of red flowers; in bloom all summer. 2 feet.

**coccinea alba.** A white form of the above.

**officinalis** (Hardy Garden Heliotrope). Showy pink flowers from June to August, with a strong heliotrope perfume.

**15 cts. each, $1.50 per doz., $10 per 100**

**VERONICA** (Speedwell). A fairly numerous and much-grown group of perennials which, with few exceptions, bears spikes of blue flowers. The taller forms are very pretty border plants, and the dwarfer varieties are well suited for the rockery. Excellent for cutting.

**amethystinus.** Amethyst-blue flowers in July and August. 1½ to 2½ feet.

**incana.** White silver-like foliage, tufted with pale blue flowers. July and August. 12 to 18 inches.

**longifolia subsessilis.** This is undoubtedly the most handsome variety in commerce, in fact, the most beautiful blue perennial we know of. Grows 2½ feet high and is completely studded with spikes of rich blue flowers from July to August, 25 cts. each, $2.50 per doz., $15 per 100.

**spicata.** Grows about 18 inches high, with long spikes of blue flowers.

**Virginica.** Free-flowering, with bold, upright habit; pale blue flowers. July and August.

**Virginica alba.** Large; pure white.

**15 cts. each, $1.50 per doz., $10 per 100, except where noted**

**VINCA minor** (Periwinkle, or Trailing Myrtle). An excellent dwarf evergreen trailing plant, used extensively for carpeting the ground under shrubs and trees, or on graves where it is too shady for other plants to thrive. 10 cts. each, $1 per doz., $8 per 100.

**minor aurea.** A new golden variegated variety, which besides being useful as a plant for carpeting the ground is a valuable addition for use in window-boxes during the winter months in connection with boxwoods and other evergreen plants. 25 cts. each, $2.50 per doz., $15 per 100.

**minor argentea variegata.** Similar to Aurea in habit of growth, but having silver instead of gold variegation. 25 cts. each, $2.50 per doz., $15 per 100.

**WALLFLOWERS.** The old favorite fragrant Wallflowers in mixed colors, including yellow, brown, etc. 15 cts. each, $1.50 per doz., $10 per 100.

**YUCCA filamentosa** (Adam's Needle). Among hardy ornamental foliage and flowering plants this can be classed at the head of the list. Its broad, sword-like foliage and tall, branched spikes of large, fragrant, drooping, creamy white flowers during June and July make it an effective plant for all positions. 25 cts. each, $2.50 per doz., $15 per 100.

Sweet William (*Dianthus barbatus*)

# HARDY SHRUBS

Our shrubs are all large, carefully selected plants, and can be sent by express only, purchaser paying express charges. Special prices given on quantities. The shrubs in the following list can be supplied by us on short notice. We shall be pleased to communicate with our patrons requiring a more extensive list of sorts.

**Prices of all shrubs on this page, unless otherwise noted, 50 cts. each, $5.50 per doz.**

## Azalea

**Amœna.** A dwarf shrub, flowering during April and May, with masses of purplish red double flowers which last from three to four weeks. The foliage remains all winter, when it turns to a coppery red shade. $1 each, $11 per doz.

**Mollis.** Similar to the above, with light green leaves; the flowers are single and as large as those usually seen on plants in florists' windows at Easter-time. Blooms about the middle of May; splendid for border planting around dwellings or massing in beds: **Rich Red** or **Deep Yellow.** Selected plants, 25 buds, $1 each, $11 per doz.

**Choice Selected from 10 Named Sorts.** 18 to 24 inches high, 75 cts. each, $8.50 per doz.

## Calycanthus floridus (Strawberry Shrub)

An interesting shrub, having a rare and pleasing fragrance of wood and flowers; its blooms are abundant and of a peculiar chocolate-color. 2 to 3 feet.

## Cerasus (Flowering Cherry)

**James Veitch.** The finest double-flowering Cherry; flowers fine pink; very fragrant during May. $1 each, $11 per doz.

## Cornus (Dogwood)

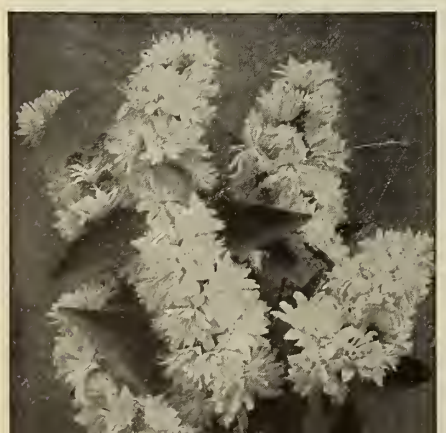
**Sibirica.** In the winter this is the most showy of all the shrubs, standing out bright and cheerful with its brilliant red bark. It should be planted in groups where its color effect is visible at a distance. It has healthy, compact foliage, white flowers and white berries. 2 to 3 feet.

## Cratægus (Hawthorn)

**William Paul.** Rich, brilliant scarlet flowers; very free-flowering sort; quite the finest Hawthorn. 75 cts. each, $8.50 per doz.

## Cytisus (Golden Chain)

**Laburnum vulgare.** A native of Europe, with smooth and shining foliage. The name Golden Chain alludes to the length of the drooping racemes of yellow flowers which appear in June.



Deutzia gracilis

## Deutzia

**Gracilis.** Of dwarf, bushy habit; the racemes of white flowers completely cover the plants, making it one of the most attractive shrubs of the season, blossoming in June.

**Lemoinei.** The branches are entirely covered with erect panicles of large, snow-white flowers, quite distinct from all other Deutzias; one of the best dwarf varieties.

## Forsythia

**Viridissima.** Bright yellow flowers, which appear early in the spring.

**Suspensa.** Yellow; drooping habit.

Hydrangea paniculata grandiflora

## Honeysuckle, Upright (Lonicera)

The following varieties are of erect, shrubby habit; valuable for their showy fruit. The climbing sorts will be found under head of Hardy Vines and Creepers, page 107.

**Tatarica rosea.** Pink flowers, which contrast beautifully with the foliage; scarlet berries.

**Tatarica alba.** Forms a high bush, with creamy white, fragrant flowers.

## Hydrangea

**Paniculata grandiflora.** One of the most popular shrubs in cultivation, blooming at a time when few other shrubs are in flower. The immense panicles of pure white flowers, which appear in August, turn to a delicate pink, remaining until late in the autumn. Spikes of flowers have been known to measure 12 inches long by 22 inches in circumference. Extra-strong plants, 5 to 6 branches.

**Standard.** About 5 feet high, well branched (stems 2½ feet), 75 cts. each, $8.50 per doz.

**Otaksa.** Of vigorous growth, especially in rich, moist soil; heavy, dark green foliage; large heads of beautiful, rose-pink flowers, blooming freely when quite young.

## Hibiscus (Rose of Sharon)

This has become one of the most popular flowering shrubs, coming in flower, as it does, in July or August, when few shrubs are in bloom. The entire plant is covered with beautiful double flowers, which, at a distance, look like roses. They make a very pretty flowering hedge. Three-year-old plants, single flowers, in **White, Pink** or **Purple.**

## Kerria

**Japonica.** A slender, green-branched shrub, covered with a profusion of globular yellow flowers from July to October.

## Lilacs

**Charles X.** A strong, rapid-growing variety, with large, shining leaves; trusses large, reddish purple.

**Marie Legraye.** Large panicles of white flowers, valuable for forcing as well as outdoors. The finest white Lilac.

**Souv. de L. Spæth.** Panicles long; individual flowers large, single; dark purplish red; the finest of its color.

**Mad. Lemoine.** Large panicles of pure white, double flowers. A splendid sort.

**All Lilacs offered in 2½-foot plants, with four branches and up, 75 cts. each, $8.50 per doz.**

## Mahonia (Holly-leaved Mahonia)

**Aquifolium.** A native shrub of medium size, with large, shining, prickly leaves, similar to those of the famous English holly, which turn scarlet in the fall; bright yellow flowers in May, succeeded by bluish berries.

## Malus (Fragrant-Flowered Crab)

**Parkmanni.** From Japan. Each bud produces regularly five blossoms set on stems 3 inches long, which are so slender that they bend with the weight of the buds and bloom in a very graceful fashion. The buds are carmine in color. The open blossoms are semi-double; the tree when in bloom presents a most gorgeous appearance.

## Prunus

**Triloba** (Double-flowering Plum). Native of China. A highly interesting and desirable addition to hardy shrubs; the double flowers are of a delicate pink, upward of an inch in diameter, thickly set on the long, slender branches; flowers in May.

## Sambucus (Elder)

**Golden Elder.** One of the most showy shrubs grown, on account of its golden foliage. Very desirable for ornamenting lawns.

**Laciniata.** A valuable variety, with elegantly divided leaves; one of the best cut-leaved shrubs.

## Spiræa

**Anthony Waterer.** A fine new dwarf Spirea with dark crimson flowers. One of the finest shrubs of recent years. 35 cts. each $3.50 per doz.

**Van Houttei.** Without doubt the finest of Spireas. At the flowering season in May and early June, the plant is covered with a mass of large white flowers, presenting a beautiful appearance.

## Staphylea (Bladder Nut)

**Colchica.** One of the finest early-flowering shrubs; handsome, pale green leaflets; flowers white, fragrant and disposed in clusters.

## Symphoricarpos

**Racemosus** (Snowberry). A well-known shrub, with small pink flowers and large white berries that hang on the plant through part of the winter.

## Syringa (Mock Orange)

**Coronarius** (Garland Mock Orange). This is the popular well-known variety; very sweet, and one of the first to flower.

**Grandiflorus** (Large-flowered Syringa). Has very showy, large flowers, slightly fragrant; branches somewhat straggling.

**Foliis aureis** (Golden-leaved Syringa). A very pretty plant of medium size, with golden yellow foliage. It keeps its color the entire season, and will be found valuable for creating pleasing and striking contrasts with purple-leaved shrubs.

## Viburnum (Snowball)

**Opulus** (High Bush Cranberry). One of the best for general planting. The leaves are broad and elegant, and the fall-borne, bright scarlet berries catch the eye late into the winter. June.

**Plicatum** (Japan Snowball). Of moderate growth; handsome plicated leaves; globular heads of pure white, neutral flowers early in June. It surpasses the common variety in several respects. Its habit is better, foliage much handsomer, flowers whiter and more delicate. One of the most valuable flowering shrubs.

## Weigela

**Rosea** (Rose-colored Weigela). An elegant shrub, with fine rose-colored flowers, introduced from China by Mr. Fortune, and considered one of the finest plants he has discovered; of erect, compact, growth; blossoms in June.

**Eva Rathke.** A charming new Weigela, with brilliant crimson flowers; a beautiful, distinct, clear shade.

**Price of all Shrubs on this page, unless otherwise noted, 50 cts. each, $5.50 per doz.**

# MAGNOLIAS

The following three sorts are of Japanese and Chinese origin. All are of dwarf habit and assume more readily the bush form.

**Alexandrina.** A choice variety, producing light pink flowers in profusion the first week of May. Selected plants, 4 ft., $1.50 each, $16.50 per doz.

**Lennei.** Its deep, dark purple flowers are cup-shaped and large; open in June and borne profusely. Selected plants, 4 ft., $1.50 each, $16.50 per doz.

**Soulangeana.** Perhaps the most popular of all Magnolias, being of vigorous growth and blooming profusely, even when quite small. The flowers are large, pink on the outside of petals and white inside. Makes a brilliant show in early spring. Selected plants, 4 ft., $1.50 each, $16.50 per doz.

# HARDY RHODODENDRONS

Few plants have enjoyed more increasing popularity than these; none are more gorgeous or effective; the immense flower-heads, which appear in May, almost cover the plant, which increases in size and beauty each year. When out of flower the evergreen plant itself is very attractive.

**Charles Dickens.** Red, a shade between light and dark.

**Everestianum.** Very delicate lavender.

**Grandiflorum.** Dark rose; very attractive.

**Kettledrum.** Very lively crimson.

**Lady Grey Egerton.** Beautiful light mauve.

**Memoir.** White, with faint blush.

**All hardiest English hybrids, 21 to 24 inches, $2 each $22 per doz.**

# JAPANESE MAPLE

(*Acer polymorphum atropurpureum*)

The hardiest of the colored-leaved forms, and is more largely planted, the blood-red foliage making it a strikingly handsome and conspicuous tree. Trees are dwarf in habit, seldom attaining a height of more than 3 feet. Fine plants, pyramid-shape, pot-grown, 2½ to 3 ft., $1.35 each, $12 per doz.

Viburnum plicatum

# SELECTED FRUIT TREES

We recommend Northern-grown fruit trees to our customers, as they will be found to give better satisfaction than Southern-grown or Western-grown trees. We furnish excellent clean trees, which, if planted carefully, are almost sure to succeed. Trees, when received, should be planted at once in rich, prepared soil, the roots being carefully separated and spread. If dry weather follows planting, the trees must be watered and mulched. Branches of last season's growth should be well cut back, thus encouraging the vigorous growth of new healthy shoots.

## Apples

### SUMMER VARIETIES

**Early Harvest.** Pale yellow; medium size. August.
**Red Astrachan.** Crimson; large; fine. August.
**Sweet Bough.** Pale yellow; very rich. August.

### AUTUMN VARIETIES

**Fall Pippin.** Yellow; delicious. October.
**Gravenstein.** Striped. September to November.
**Maiden's Blush.** Yellow, with red cheek. October.

### WINTER VARIETIES

**Baldwin.** Red; large; excellent.
**Ben Davis.** Yellow and red; large and luscious.
**Fameuse, or Snow Apple.** Very fine.
**King.** Crimson; extra large and fine.
**Northern Spy.** One of the best; large.
**Rhode Island Greening.** Excellent.
**Roxbury Russet.** Medium size; splendid. October.

**Price: XX, each $1; XXX, each $1.50**

## Crab Apples

**Red Siberian.** Yellow and scarlet; medium.
**Yellow Siberian.** Deep yellow; medium; fine.

## Cherries

**Black Tartarian.** Purplish black; very rich. June.
**Governor Wood.** Yellow, with red cheek. June.
**Yellow Spanish.** Pale yellow, with bright red cheek; large and juicy.

**Price: XX, each 75 cts.; XXX, each $1.25**

## Peaches

**Champion.** Freestone; white and red; large and juicy. Excellent new sort. August.
**Crawford's Early.** Freestone; yellow and red. September.
**Crawford's Late.** Freestone; very large. October.
**Elberta.** (New.) Freestone; large, handsome, golden yellow and crimson; very productive. The best early sort for market.
**Hale's Early.** Freestone; rich and juicy. August.

**Price: XX, each 50 cts.; XXX, each 75 cts.**

## Pears

### SUMMER VARIETIES

**Bartlett.** A splendid summer variety. September.
**Clapp's Favorite.** Yellow and red; large. August.

**Price: XX, each $1; XXX, each, $1.50**

### AUTUMN VARIETIES

**Belle Lucrative.** Green; sweet; large. September.
**Louise Bonne.** Large; long; melting. October.
**Seckel.** Small; one of the sweetest. September.

### WINTER VARIETIES

**Beurre d'Anjou.** Large; unsurpassed flavor. November.
**Duchesse d'Angouleme.** Very large; rich.
**Lawrence.** Medium; delicious quality.

**Price: XX, each $1; XXX, each $1.50**

## Plums

**Bradshaw.** Large; purple; sweet. August.
**Coe's Golden Drop.** Large; oval; yellow. September.
**Damson.** Small; for preserving. October.
**Imperial Gage.** Large; oval; green; very sweet. September.
**Jefferson.** Yellow and red; fine. August.
**Lombard.** Violet-red; medium. September.
**Pond's Seedling.** Violet; large and juicy. September.
**Smith's Orleans.** Purple; very rich. September.

**Price: XX, each 75 cts.; XXX, each $1.25**

## Quinces

**Apple or Orange.** Large; round; yellow.
**Champion.** Extra large; pyriform.

**Price: XX, each $1; XXX, each $1.50**

# English Pot-Grown Grape-Vines, Nectarines, Peaches and Other Fruit Trees

We import all these plants on advance orders only, and have each individual order packed separately for our customers. Our growers, Messrs. Thomas Rivers and Sons, are considered the most reliable and best growers. Varieties and prices on application.

# Foreign Fruit Trees

The following list of fruits have been imported by us and grown on in our nursery, and can be relied upon to give satisfaction. If stock is desired for open-ground planting for espaliers, etc., we can strongly recommend same.

| | Each |
|---|---|
| **Apples,** 10 varieties, dwarf pyramidal form, 7-year-old | $3 50 |
| **Apples,** standard form, extra-fine shape. 7-year-old | 3 50 |
| **Pears,** 10 varieties, dwarf pyramidal form. 7-year-old | 3 50 |
| **Pears,** standard form, extra-fine shape. 7-year-old | $3 50 |
| **Cherries,** standard form, extra-fine shape | 3 50 |

To prevent San José Scale, or check it if your trees are already infested, use "Scalecide," a dormant spray that should be applied any time during the winter up to April, or before the trees have started growth. Price per gallon $1, 5 gals. $3.25, 10 gals. $6, 50-gal. barrel $25.

# GRAPE-VINES

We receive many flattering testimonials as to the qualtity of our Grape-vines.

**Extra-strong, 3-year-old vines, 50 cts. each, $5 per doz.**

## White Grapes

**Diamond.** White. Bunch large, compact, shouldered; berries large, round; skin thin, but tough; flesh tender, juicy, with but little pulp. Vine is a good grower, with thick, healthy foliage; hardy and productive; of fine quality. Ripens a little before Concord.

**Green Mountain.** White. Bunch medium to large, shouldered; berries medium, greenish white; skin thin, tough; pulp tender, sweet, with few seeds; of excellent quality, free from foxiness; very early. Vine vigorous, healthy, hardy and very productive. A fine Grape, identical in every way with Winchell.

**Niagara.** White. Bunch very large and handsome, often shouldered; compact; berries large, round; skin thin, tough, does not crack, and carries well; has not much pulp when fully ripe; melting, sweet, with a flavor and aroma peculiarly its own, and agreeable to most tastes; ripens with Concord.

**Pocklington.** Pale green, usually with tinge of golden yellow where exposed to the sun; bunch large, very compact; berries very large, covered with a beautiful white bloom; flesh juicy, sweet, with considerable pulp.

## Red Grapes

**Agawam.** Red or maroon. Bunch usually loose, shouldered; berries large; skin thick; flesh pulpy, meaty, juicy, of a rich, peculiar aromatic flavor; ripens about with Concord; a good keeper. Vine a strong, rank grower, hardy and productive; should be pruned, leaving long canes.

**Brighton.** Red. Bunch medium to large, long, compact; shouldered; berries medium; skin thin; flesh tender, sweet, with scarcely any pulp; quality best. Vine a vigorous grower, healthy, hardy and productive; one of the best early red Grapes. The flowers have reflexed stamens and do not always fertilize fully unless planted with Concord, Worden, Martha, or other varieties which blossom at the same time. Ripens with Delaware.

**Catawba.** Dark red when fully ripe. Bunch large, moderately compact, shouldered; berries medium to large; skin thick, tough; flesh somewhat pulpy, with rich, vinous flavor, of best quality for both table and wine. Vine a good grower, hardy, with healthy foliage; very productive and profitable where it succeeds and matures well. Ripens too late for high latitudes.

**Delaware.** Red. Bunch small, compact, sometimes shouldered; berries small; skin thin, but firm; flesh juicy, very sweet and refreshing, of best quality for both table and wine; ripens with Concord or a little before. Vine hardy, productive, a moderate grower; requires rich soil and good culture. Is regarded by many as the best American Grape, all things considered. It should be in every garden and vineyard.

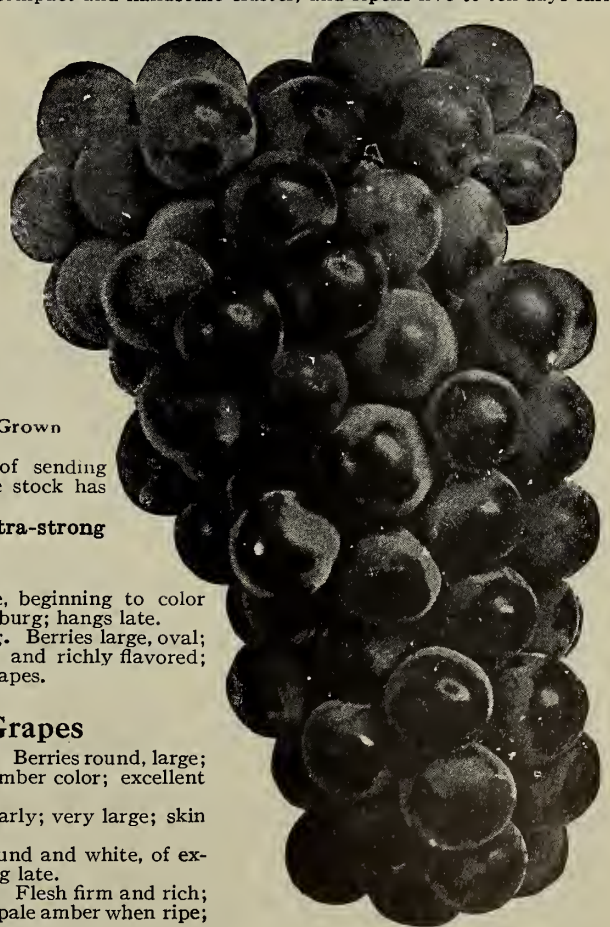
## Black and Blue Grapes

**Concord.** Black. Early. Decidedly the most popular Grape in America, and deservedly so. Bunch large, shouldered, compact; berries large, covered with a rich bloom; skin tender, but sufficiently firm to carry well to distant markets; flesh juicy, sweet, pulpy, tender. Vine a strong grower, very hardy, healthy and productive. For general cultivation the most reliable and profitable variety.

**Eaton.** Black. Similar in foliage to Concord. In growth, health, and hardiness of vine; in every respect its equal, while in size of bunch and berry it is much larger and more attractive. Leaf large, thick, leathery, covered on the under side with a thick brownish yellow down. Bunch very large, compact, double shouldered; berries very large, many 1 inch in diameter, round, black, covered with a heavy blue bloom, adheres firmly to the stem; skin thin, but tough; pulp tender, separating freely from the seeds and dissolving easily in the mouth; very juicy. Ripens with Concord or a little earlier.

**Moore's Early.** Black. Bunch rarely shouldered; not quite so large as Concord; berries larger and very much like it in flavor and quality. Vine a moderate grower; very healthy and hardy; foliage thick, leathery, somewhat resembling Concord, except on the under side, which is covered with a yellowish brown down. Produces a fair, and, with high cultivation, a heavy crop. Ripens so early as to be nearly out of market before Concord is ripe and is, therefore, a very popular early market variety. Succeeds best on rich soil.

**Worden.** Black. Bunch large, sometimes shouldered, compact; berries very large, skin thin. Superior to the Concord in the following points: It is better in quality, has a larger berry, a more compact and handsome cluster, and ripens five to ten days earlier.



Concord Grapes

# HOTHOUSE GRAPES Pot-Grown

Our growers, Messrs. Thomas Rivers & Sons, have the reputation of sending out only the best stock. In every instance where we have imported, the stock has given excellent satisfaction.

**Strong, 2-year-old planting canes, $5 each, $50 per doz.; extra-strong fruiting canes, $7.50 each, $75 per doz.**

## Black Grapes

**Alicante** (Black Tokay). Berries very large, oval; bunch large; a good late-keeping Grape.

**Appley Towers.** A late black Grape, succeeding Black Hamburg; of good flavor and keeping qualities.

**Barbarossa.** Berries round, very large, black; flesh juicy and sweet; a very late sort.

**Black Hamburg.** Berries large, roundish oval; the most popular and one of the best Grapes in cultivation.

**Black Muscat.** (Muscat Hamburg). Berries medium size, oval; richly flavored Grape.

**Gros Colman.** Berries round, black, of monstrous size; flesh juicy and sweet; bunch very large; hangs late.

**Gros Maroc.** This Grape is now recognized as one of our finest. The berries are large, of a deep black-purple, beginning to color as early as Black Hamburg; hangs late.

**Lady Downe's Seedling.** Berries large, oval; black; flesh firm, sweet and richly flavored; one of the best late Grapes.

## White Grapes

**Buckland Sweetwater.** Berries round, large; when ripe of a pale amber color; excellent bearer.

**Duke of Buccleuch.** Early; very large; skin tender.

**Lady Hutt.** Berries round and white, of excellent quality, hanging late.

**Muscat of Alexandria.** Flesh firm and rich; berries large and oval, pale amber when ripe; requires heat to ripen.

# CHOICE SELECTION OF SMALL FRUITS

Wilder Currants

## CURRANTS

Plant in rows 6 feet apart, and 4 feet apart in the rows, or, if to be cultivated both ways, 5 feet apart each way.

**15 cts. each, $1.50 per doz., $10 per 100**

**Wilder** (President Wilder). Bush upright, vigorous; clusters above medium length; berries averaging large; bright red; excellent, with a mild subacid flavor. Ripens early and remains bright and firm until very late. Because of its exceedingly vigorous growth, great productiveness, high quality, and remaining good so long after ripening, we recommend this as one of the best Red Currants, both for table and market.

**Cherry.** Bush vigorous, stocky and compact; cluster rather short, with short stems; fruit averages large; color fine, bright red; berry thin-skinned, juicy and fine-flavored. One of the most productive of the large Currants.

**Moore's Ruby.** Bush upright, strong-growing; cluster medium to large; berries above medium, juicy, sweet and good; clear ruby-color.

**North Star.** Bush very vigorous, upright, somewhat spreading; clusters medium length; berries vary from small to medium or above; dark red; comparatively mild acid. Very hardy and exceedingly productive.

**Victoria** (Ruby Castle). Bush a very strong, upright grower; foliage rather pale bronze-green; clusters above medium length; berries medium or above, bright red, with mild acid pulp. One of the most valuable late varieties, always bringing good prices in market. Very productive.

**Black Naples.** Bush very vigorous, upright, moderately productive; fruit varies from small to large, averaging above medium; pulp acid, with strong flavor. An old and well-known variety. Always in demand.

**White Imperial.** Bush vigorous and very productive; clusters large; berries very large, sweet and most delicious. This is the best of the White Currants, and fine for the table. Equally desirable as a market Currant.

## NEW RASPBERRY

## St. Regis Everbearing (RANIERE)

A remarkable Raspberry and, all things considered, the most valuable variety that has appeared in the last quarter of a century. The berries, though not of large size, are bright red and of excellent quality. It ripens very early, in advance of all the other red varieties, and the canes, in addition to being exceedingly hardy and drought-resistant, are exceedingly prolific. It has rich green foliage that does not scald or rust, hence it succeeds on hot, sandy soil where other varieties fail. Besides yielding an enormous crop in June, it gives also a moderate one in the autumn, and, unlike other red Raspberries, it produces a crop of berries the first year, or the season it is planted. **15 cts. each, $1.50 per doz., $10 per 100.**

## RASPBERRIES

**15 cts. each, $1.50 per doz., $10 per 100**

### Red Raspberries

**Cardinal.** This wonderful berry is a surprise in the fullness of its merits, great growth, extreme hardiness and wonderful productiveness. It will grow 10 feet high and bear accordingly, producing its choice, rich red, pure-flavored fruit in marvelous abundance. Leading horticulturists who have seen the berry say it is one of the wonders of the century.

**Cuthbert.** Deep, rich crimson, large to very large, very firm. One of the very best market varieties. Season medium to late. A remarkably strong, hardy and productive variety.

**Miller.** Bright red, large, round, of fine quality. One of the firmest and best shippers for early market. Vigorous, hardy, immensely productive.

### Black Raspberries

**Cumberland.** Black. Very large; very similar to Gregg in quality and firmness; in hardiness and productiveness it is unexcelled.

**Gregg.** Black. Has been for many years the leading market berry. Large, firm, of good quality, ripening late. Exceedingly productive.

**Munger Raspberry.** Black. Is beyond doubt the finest, latest and largest fancy market berry in existence. Many are substituting for this variety. Do not allow it, as there is no other *Blackcap half so good.* Send to us and get genuine Munger. Always in great demand in market, and brings the very best prices.

## BLACKBERRIES

**15 cts. each, $1.50 per doz., $10 per 100**

**Dorchester.** Medium; fruit firm, sweet and high-flavored. A vigorous grower, producing large crops.

**Kittatinny.** A stout, erect and vigorous-growing kind. Fruit large and delicious.

**Wilson's Early.** Very good, large, firm and sweet; hardy and productive, and one of the earliest in fruit.

**Mersereau.** A mammoth early berry; very sweet and melting, without core, and an enormous yielder.

**Iceberg.** One of Luther Burbank's introductions; color white. A novelty.

## GOOSEBERRIES

**Downing.** Pale green, large, prolific and good. Best for home and market use. 15 cts. each, $1.50 per doz., $10 per 100.

**Smith's Improved.** Large, pale, greenish yellow; skin thin. Excellent quality. 15 cts. each, $1.50 per doz., $10 per 100.

**Red Jacket.** Bush vigorous, upright and productive. Fruit varies in size from medium to above medium. Color pale red. 15 cts. each, $1.50 per doz., $10 per 100.

**Golden Prolific.** Good grower; hardy; productive. Fruit large; golden yellow; excellent. 15 cts. each, $1.50 per doz., $10 per 100.

# CARNATIONS *and* CHRYSANTHEMUMS

## FOR INDOOR GROWING

We have made arrangements with the best grower in America to produce stock of the following Carnations, Roses and Chrysanthemums. We cannot fill any order for less than three of any variety of Carnations, Chrysanthemums and Roses, except where the order amounts to $1 or more.

## CARNATION PLANTS

### READY IN FEBRUARY

**SPECIAL NOTICE.**—This year we are offering plants of Carnations from 2¼-inch pots, as they are more satisfactory to handle and ship than rooted cuttings. We can, however, supply rooted cuttings of all varieties at lower prices, but recommend pot-plants.

## NOVELTY CARNATIONS, 1915

**Alice.** (Fisher.) Beautifully formed flowers of medium size; shell-pink in color. As a plant, the variety shows freedom of growth that is remarkable, and the formation of flower and calyx insures freedom from splits. It is a variety that any one may plant with perfect confidence.

**Sensation.** (Dorner.) A light pink that will class with the fancy varieties; the flowers are large and nicely formed.

**Good Cheer.** (Dorner.) In color a true rose-pink. The flowers are of medium size and perfect in form. The plant makes no surplus growth, but every growth is a flowering shoot. We consider Good Cheer to be the finest variety in this most desirable color.

**Plants from 2¼-inch pots, $3 per doz., $20 per 100**

## SEVERAL 1914 FAVORITES

**Gorgeous.** This is the "American Beauty" of the Carnation family. It is a giant in growth and flowers freely, but not so prolifically as smaller varieties. In color it may be described as rich, glowing crimson, suffused with brilliant vermilion. It becomes scarlet under artificial light.

**Matchless.** This splendid Carnation is the most promising of any white variety ever offered. The flowers are large and borne on long, stiff stems. It is a free bloomer, very fragrant, with fringe-edged petals. The calyx is good. It has won the Gold Medal at the International Flower Show.

**Princess Dagmar.** A crimson Carnation, very large, full flowers, nicely formed. The habit of the plant is excellent; the color very deep. This variety is the highest type of dark red or crimson in existence.

**Plants from 2¼-inch pots, $1.50 per doz., $12 per 100**

## SELECT STANDARD CARNATIONS

**BEACON.** The best scarlet variety. Our stock is clean, vigorous and perfectly free from stem-rot.

**BENORA.** The best variegated variety ever introduced. It is also extremely free. Flower large, full and of perfect form. Color cream-white, beautifully penciled with bright red; stems long and wiry, with narrow foliage. This Carnation stands head and shoulders above anything else in its class.

**ENCHANTRESS.** Our stock of this old standard shell-pink is in excellent condition.

**ENCHANTRESS SUPREME.** Few Carnations introduced of recent years have been more generally grown than this variety. It is of a beautiful light salmon-pink, which endures exposure to the sun without bleaching. The calyx is longer than its parent Enchantress and shows no tendency to burst.

**EUREKA.** Scarlet seedling from Beacon, with habit similar to Beacon. Flower a trifle smaller, with better calyx.

**MAY DAY.** An excellent commercial variety. It is very free, and its even shade of pink is much desired.

**MRS. C. W. WARD.** In color a very pleasing shade of pink, slightly lighter than Mrs. Lawson. In growth and habit it is all that could be desired, being thrifty and clean, and making an abundance of flowering shoots. It is a variety that we can highly recommend.

**WHITE ENCHANTRESS.** The pure white strain. For general use there is none better than White Enchantress.

**WHITE WONDER.** In character of bloom White Wonder is similar to White Perfection, but the plant shows greater strength and freedom of growth. Large, pure white bloom, and well worthy of being considered one of our best commercial varieties.

**Plants from 2¼-inch pots, $1 per doz., $8 per 100. 3 of one variety at the dozen rate; 25 of one variety at the 100 rate**

## EXHIBITION CHRYSANTHEMUMS

**From 2¼-inch pots. READY IN MARCH**

## NOVELTIES, 1914-1915

**MANAKTO.** (Smith.) May be briefly described as an improved Reginald Vallis, nearly or quite the same color—purplish rose or amaranth. Its sturdy, upright growth will permit staging on long stems without the aid of artificial supports to hold them erect. Easy of propagation; height 5 feet, from early planting. Best bud August 20. Will make splendid specimen plant. **Plants from 2½-inch pots, $1.50 each, $15 per doz.**

**SILVER KING.** (Smith.) An exhibition variety of special merit, owing to its large size, strong upright growth and rigid stem. This will be an important feature at the coming exhibitions. White, with long, broad petals. From early planting will reach 8 feet in height. Best bud August 30. **Plants from 2¼-inch pots, $1.50 each, $15 per doz.**

**DAILY MAIL.** Incurved in form; yellow. Growth tall.

**FLAMINGO.** Exquisite shade of crimson; reflex, showing only the upper surface of the petals. Destined to become one of the best exhibition crimsons.

**JAMES FRASER.** This may be described as an improved F. S. Vallis. Bright yellow, with large bloom; excellent stem and foliage.

**MEUDON.** An immense flower; bright pink; habit dwarf, with foliage up to the flower.

**MRS. PAUL MOORE.** Light yellow; stem and foliage excellent.

**MRS. ERNEST WILD.** Chestnut-crimson, with bronze reverse.

**ODESSA.** Late midseason variety, maturing November 10 to 15. Incurved form; height 5 feet. Best bud September 5. Won First Prize for ten best yellows at American Institute this past fall.

**WM. VERT.** A fine red variety with golden reflex to the petals.

**Plants from 2¼-inch pots, except where noted, 50 cts. each, $5 per doz., $35 per 100**

## STANDARD EXHIBITION VARIETIES

**Beatrice May.** Pure white on crown buds, flushed with pink on terminals.

**C. H. Totty.** Glowing chestnut-scarlet; flower, stem and foliage large.

**Elberon.** Japanese incurved; very pleasing shade of pink.

**Frank Payne.** Light pink; Japanese reflexed.

**F. E. Nash.** Light pink Japanese, of large size.

**F. T. Quittenton.** Deep crimson; every petal naturally reflexes.

**F. S. Vallis.** Large; yellow; splendid for short vases.

**Glenview.** Magnificent, semi-dwarf, dark red, globe-shaped.

**Harry E. Converse.** Petals crimson, with golden bronze reverse; large bloom of excellent growth.

**Lady Hopetown.** Light pink; flower large and beautifully formed; dwarf habit.

**Lenox.** Lovely bright yellow; very large, incurved flower.

**Mary Donnellan.** Very tall in growth; flower large, incurved; deep golden yellow.

**Miss Miriam Hankey.** Lake-pink; Japanese incurved; semi-dwarf.

**Mrs. Gilbert Drabble.** Pure white; of largest exhibition size, with petals arranged in a whorl, making a most attractive bloom.

**Mrs. J. C. Neil.** Soft canary-yellow; easy to grow; one of the best.

**Mrs. J. E. Dunne.** A Japanese terra-cotta flower; tall in growth.

**Mrs. H. Stevens.** A large, golden bronze, finely formed flower, with perfect finish; dwarf.

**Mrs. O. H. Kahn.** Golden bronze; flower compact; medium dwarf grower.

**Mrs. Wm. Duckham.** Japanese reflexed; very deep yellow on early buds; late buds have petals edged with bronze.

**Nakota.** Large, incurved bloom; the color is described as orange-buff, and is classed as a dark yellow.

**Pockett's Crimson.** Crimson, with gold tips to the petals; one of the best varieties.

**Reginald Vallis.** Very large Japanese; plum-color, with lighter reverse; tall.

**Rose Pockett.** Old-gold, shaded bronze; splendid exhibition sort.

**W. Woodmason.** Very large bloom; red, but not bright enough to be called crimson.

**W. E. Mease.** Deep lavender; reflexed in type; bloom large; stems weak; needs staking and good only to show with short stems.

**Wm. Turner.** Pure white; incurved type; one of the finest of the large-flowered chrysanthemums, and a general favorite.

**Plants from 2¼-inch pots, 10 cts. each, $1 per doz., $6 per 100**

# OUTDOOR CHRYSANTHEMUMS Hardy, Early Flowering

Up to the introduction of this grand type, many gardeners without greenhouses were obliged to wait for the Hardy Pompon and large-flowering types of Chrysanthemums, which come into flower when everything else in the garden has ceased flowering. The value of these very early, large, double-flowering Chrysanthemums can scarcely be overestimated for the garden, as they will produce an abundance of bloom from the end of August until cut down by frost.

They should be planted on ground that has been deeply dug and fairly well manured. Plant them out about the middle of May, put one good stick to each plant, and tie the shoots as they grow, pinching them once or twice to make them bushy, but not after July 1. Water thoroughly at intervals during dry weather. Allow each plant a space of 18 inches to 2 feet, and they will produce enormous quantities of flowers.

**CARRIE.** Deep golden yellow; medium-size flowers.

**COMTESSE DE CARIEL.** Orange-bronze; flowers produced in great profusion.

**EDEN.** Bright rose; flowers medium in size.

**ETHEL BLADES.** Yellow, much marked with chestnut-brown.

**GOACHER'S CRIMSON.** Bright crimson; very large flowers carried on long stems; a splendid cut-flower variety.

**JIMMIE.** Crimson-purple; very large flowers; good disbudded or in sprays.

**LESLIE.** Rich buttercup-yellow; a beauty for garden decoration.

**KING OF THE WHITES.** Very graceful flowers; pure white.

**MEDUSA.** Bronzy red, with a buff reverse; petals quilled; flowers medium in size.

**NORMANDIE.** Delicate pink, a lovely color; begins to flower at the end of August.

**OCTOBER GOLD.** Old-gold; grand for bunching.

**ORION.** Guinea-gold; free and bushy; good disbudded or in sprays.

**PERLE CHATILLONAISE.** Lemon-white; flowers large, in long sprays, produced in great abundance.

**ROBERT BURNS.** Light pink; medium-sized flowers.

**TOURAINE.** A very lovely shade of lilac.

**WELL'S PRIMROSE.** Splendid, erect grower; large, spreading flowers; pale primrose-yellow.

**Plants from 2¼-inch pots, 10 cts. each, $1 per doz., $6 per 100**

# ROSES FOR GREENHOUSE GROWING

**DELIVERED AFTER MARCH**

We cannot accept orders for less than three Rose plants, except where several varieties are ordered and amount to three or more in the aggregate. 2¼-inch pot-plants ready in March; 3-inch in April; 4-inch in June. Any of the varieties offered may be successfully planted outdoors also.

**Hoosier Beauty.** (Dorner.) **Novelty, 1915.** Introducer's description: In color a rich, velvety crimson, with deeper shadings. It is as fragrant as Richmond, has more petals and better keeping qualities. In production of bloom it ranks with any forcing variety. It naturally throws 2- and 3-foot stems; never has a dormant period, starting new growth very quickly at any time of the year. Without exception, it is the strongest grower of forcing Roses, making plants well clothed with foliage, perfectly healthy, and never showing a trace of mildew or black-spot. Grafted plants only. **2¼-inch 65 cts. each, $6.50 per doz., $45 per 100; 3-inch 80 cts. each, $8 per doz., $55 per 100; 4-inch $1 each, $9 per doz., $60 per 100.**

## ROSES OF RECENT INTRODUCTION

**HADLEY.** The color is a deep, velvety crimson, retaining its brilliance at all seasons of the year; the fragrance is excelled only by American Beauty.

**KILLARNEY BRILLIANT.** A sport from Killarney; has the same habit of growth and same freedom of bloom as the parent, while the flower is almost twice as large and more brilliant pink.

**OPHELIA.** Among the new Roses grown for greenhouse flowering, Ophelia has merited the praise which the variety has received and is a welcome addition to the list. It is not a large Rose, but has beautiful form and a color that is very pleasing. It may be described as salmon-flesh, shaded with rose. The growth is satisfactory in every respect and the variety is very prolific.

**MRS. CHARLES RUSSELL.** A strong-growing Rose. With one pinching makes stems 4 to 5 feet in length. The bud is fully as large as American Beauty, but longer and pointed, and opens into a flower of unusual beauty. The color is a bright rose-pink, deeper toward the center. Remarkable keeper and shipper.

**PRICES OF ANY OF THE ABOVE VARIETIES, GRAFTED PLANTS:**

| | Each | Doz. | 100 |
|---|---|---|---|
| 2¼-inch | $0 35 | $3 50 | $25 00 |
| 3-inch | 40 | 4 00 | 27 50 |
| 4-inch | 50 | 5 00 | 35 00 |

## AMERICAN BEAUTY (Own-root only)

We can supply excellent stock of this very popular Rose at the following prices: **2¼-inch 15 cts. each, $1.50 per doz., $12 per 100; 3-inch 20 cts. each, $2.25 per doz., $18 per 100; 4-inch 30 cts. each, $3 per doz., $25 per 100.**

## SELECT STANDARD SORTS

**Double White Killarney.** An improvement on White Killarney; comes free from pink in warm weather, with stronger growth and heavier foliage.

**Jonkheer J. L. Mock.** A deep pink, blending to carmine. A splendid Rose in bud as well as when open; good forcer and an ideal outdoor variety.

**Killarney.** Pink; most widely grown forcing Rose.

**Killarney Queen.** A fancy pink for the winter months; a cerise-pink sport of Killarney; exceptionally strong in growth, with excellent foliage.

**SELECT STANDARD SORTS, continued**

**Lady Hillingdon.** A deep copper-yellow; a Rose whose color makes a strong appeal. When open, the rich color at the heart makes it wonderfully attractive; splendid forcer.

**Mrs. Aaron Ward.** A favorite; rich yellow in the bud, which changes to pink as the flower opens; splendid either for indoor or outdoor growing.

**Mrs. George Shawyer.** While comparatively new to America, Mrs. Shawyer has been disseminated for some years in Europe, but it is safe to say that it is even more popular here than abroad. It is a brilliant pink in color, with long, pointed buds that are fairly full and which open perfectly at all seasons. The growth is tall, and the stems carry the flowers perfectly. The foliage is good but inclined to be soft when grown with an over-abundance of heat. It is a Rose that, properly handled, will be one of the finest. Splendid for outdoor-growing also.

**Mrs. Taft** (Antoine Rivoire). This variety is a general favorite wherever grown. Its beautifully formed shell-pink blooms, backed by handsome, glossy foliage, make it very popular.

**My Maryland.** As a summer forcing Rose My Maryland reigns supreme. Clear pink in color. Pointed buds, combined with wonderful producing qualities, make this Rose deservedly popular.

**Radiance.** Radiance is very popular with the trade. Deep cerise-pink in color. Strong in growth and a good producer. One of the finest Roses for outdoor growing.

**Richmond.** Clean and strong grower, free bloomer; fine-shaped buds borne on stiff stems; color bright, rich scarlet-crimson.

**Sunburst.** In color, orange-copper or golden yellow, very intense shades and brilliant in coloring. It is a strong-growing variety and belongs to the class of big Roses. The foliage and stems are excellent. Owing to the fact that Sunburst has not been a general success grafted, we are offering the variety on its own roots only. **2¼-inch, 20 cts. each, $2 per doz., $15 per 100; 3-inch, 30 cts. each, $3 per doz., $20 per 100; 4-inch, 40 cts. each; $4 per doz., $25 per 100.**

**White Killarney.** (Waban Strain.) White Killarney has most successfully advertised itself. Like its parent, the pink Killarney, it has become one of the most popular Roses grown today.

**PRICES OF STANDARD SORTS, EXCEPT SUNBURST, GRAFTED PLANTS**

| | Each | Doz. | 100 |
|---|---|---|---|
| 2¼-inch | $0 25 | $2 25 | $17 50 |
| 3-inch | 30 | 3 00 | 22 50 |
| 4-inch | 40 | 4 00 | 30 00 |

**We shall be pleased to make prices on any variety of greenhouse Rose required. Prices on own-root stock on request**

# Planet Jr. Garden Tools

The New "PLANET JR." Catalogue is the handsomest, best and most instructive book ever issued on a similar subject. Full of little points that bring profit. Full of true and handsome illustrations. We mail it free to any address on application.

## No. 28 Planet Jr. Combined Hill and Drill Seeder, Single Wheel Hoe, Cultivator, Plow, Rake and Marker

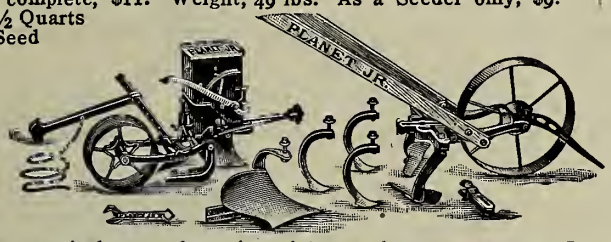
Price, $15
Weight, 71 lbs.

No. 28 is both a hill dropper and drill seeder, and is combined with a steel frame, single wheel hoe, with the most complete equipment of garden tools ever offered.

## No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

Price, complete, $11. Weight, 49 lbs. As a Seeder only, $9.

Holds 2½ Quarts of Seed




It is a practical, everyday, time, labor and money saver. It sows in continuous rows with great uniformity, and drops with accuracy in hills, 4, 6, 8, 12 or 24 inches apart. **The feed is automatically** stopped by raising the handles, and started by lowering them.

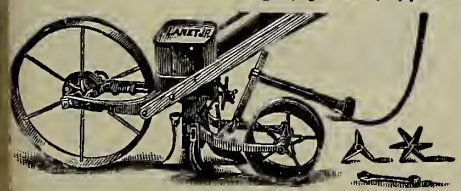
## No. 25 Planet Jr. Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow

Price, $13.50. Weight, packed, 59 lbs. Holds 2½ Quarts of Seed

This new combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used, and yet prefer not to buy seeders and wheel hoes separately.

## No. 3 Planet Jr. Hill and Drill Seeder

Price, $10.50. 15-inch Steel Drive Wheel. Holds 3 Quarts of Seed
Weight, packed, 44 lbs.

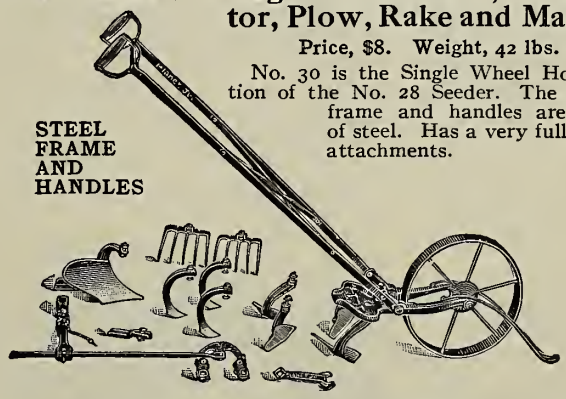


A favorite among onion-growers, market-gardeners and seedsmen. **The hill dropping** is simple and reliable, making hills either 4, 6, 8, 12 or 24 inches apart. **Changes of distance** between hills may be made in less than a minute, by substituting one gauge wheel for another.

## No. 30 Planet Jr. Single Wheel Hoe, Cultivator, Plow, Rake and Marker

Price, $8. Weight, 42 lbs.

STEEL FRAME AND HANDLES



No. 30 is the Single Wheel Hoe portion of the No. 28 Seeder. The wheel, frame and handles are made of steel. Has a very full set of attachments.

## No. 16 Planet Jr. Single Wheel Hoe, Cultivator, Rake and Plow

Price, $5.85. Weight, 25 lbs.

We offer these Single Wheel Hoes as the highest type of their class. They have a great variety of tools which adapt the implements to a large variety of work, and there is scarcely any garden culture of which they are not capable.

## No. 17 Planet Jr. Single Wheel Hoe

Price, $5. Weight, 23 lbs.

You can do more and better hoeing with it in one day than you can do in three days with a hand hoe. The No. 17 has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work.

## No. 11 Planet Jr. Double Wheel Hoe, Cultivator, Plow and Rake

Price, with Attachments as in cut, $9. Weight, packed, 37 lbs.

**The Planet Jr. Double Wheel Hoes are the greatest cultivating tools in the world for the onion- and small sugar-beet-grower,** and also for every grower of garden crops from drilled seed. They do more work and do it better and easier than can possibly be done in any other way. **The frame** is steel.

## No. 12 Double Wheel Hoe, Cultivator and Plow. Price, $7. Weight, 33 lbs.

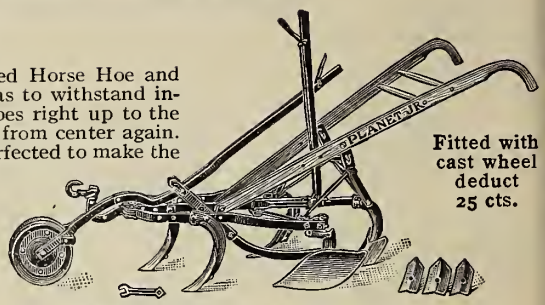
This tool is identical with No. 11 Wheel Hoe, except that it has one pair plows, one pair hoes, four cultivator teeth and a pair of leaf-lifters only, and is sold at a correspondingly less price. The tools sold with No. 12 are what gardeners use most, and the others can be added as wanted.

# Planet Jr. Garden Tools

## No. 8 Planet Jr. Horse Hoe and Cultivator

**Price, with steel wheel, $9.25. Weight, packed, 83 lbs.**

No other cultivating machine is so widely known as the Planet Jr. Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle. It opens and closes furrows, hoes right up to the plants without danger of injuring, throws dirt to or from the row and throws back from center again. You can cultivate to any depth desired, and adjust for any width. Every part is perfected to make the tool acceptable to the intelligent farmer who knows the best is always the cheapest




Fitted with cast wheel deduct 25 cts.

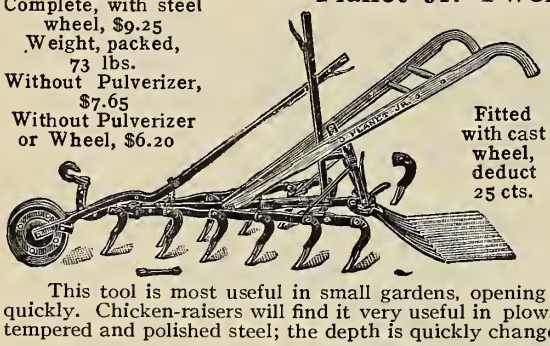
## No. 7 Planet Jr. Horse Hoe and Cultivator

**Price, $8.75. Weight, packed, 77 lbs.**

The No. 7 Horse Hoe is the No. 8 without the depth regulator. It works the same, except that it lacks the steadiness and control of depth made possible by the depth regulator.

## Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer

Complete, with steel wheel, $9.25
Weight, packed, 73 lbs.
Without Pulverizer, $7.65
Without Pulverizer or Wheel, $6.20



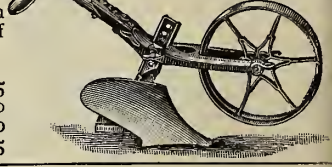

Fitted with cast wheel, deduct 25 cts.

Gardeners cultivate better than formerly. It has been found to pay best. With the Twelve-Tooth Harrow you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. It's a special favorite with strawberry-growers, market-gardeners and truckers.

A strawberry runner cutter consisting of a 10-inch flat steel disc mounted on an outrigger. Extra. **Price, $1.85.**

**Beet Hoes** for hoeing beets and all crops in rows from 15 to 30 inches. They do admirable work, leaving the ground level. **Price, per pair, $1.40.**

## The "Fire-Fly" Garden Plow




This tool is most useful in small gardens, opening furrows for manure or seeds, and covering them quickly. Chicken-raisers will find it very useful in plowing up the scratching-yards. The mold-board is of tempered and polished steel; the depth is quickly changed. **Price, $2.35.**

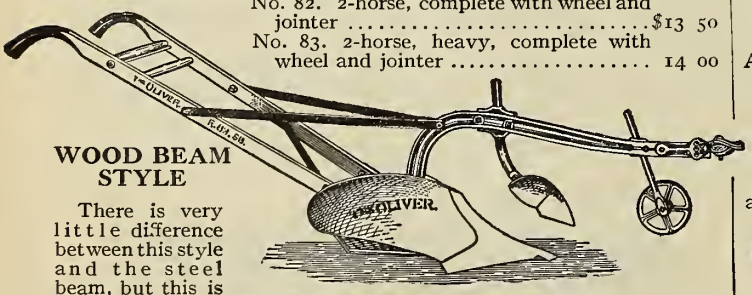
**"Planet Jr." No. 13 Double Wheel Hoe** ..... $4 75
**"Planet Jr." No. 18 Single Wheel Hoe.** One pair 6-inch hoes only ..... 3 50
**"Planet Jr." No. 17½ Single Wheel Hoe** ..... 4 50
**"Planet Jr." Grass Edger** ..... 6 25

## The Oliver Chilled Plow

### STEEL BEAM STYLE

This style beam has almost displaced the old wooden one; it is much lighter, more durable and not nearly so clumsy, especially suitable for using in either light soil or stony ground. The beam, mold-board and shares are the best-quality chilled steel.

No. 82. 2-horse, complete with wheel and jointer ..... $13 50
No. 83. 2-horse, heavy, complete with wheel and jointer ..... 14 00




### WOOD BEAM STYLE

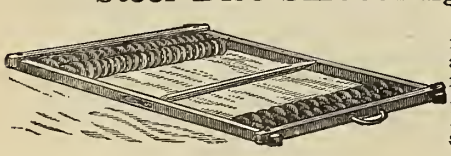
There is very little difference between this style and the steel beam, but this is lower in cost. Highly desirable for light, sandy soil.

No. A2. 1-horse, plain ..... $5 00
No. 10. 2-horse, medium, complete with wheel and jointer .... 11 50

NOTE.—No. A2 being a smaller plow does not work well with a wheel or jointer. On the other styles, if this equipment is not desired, deduct $2 for the jointer or $1 for the wheel.

We can also supply **"South Bend"** and **"Syracuse"** Plows.

## Steel Disc Smoothing Harrow



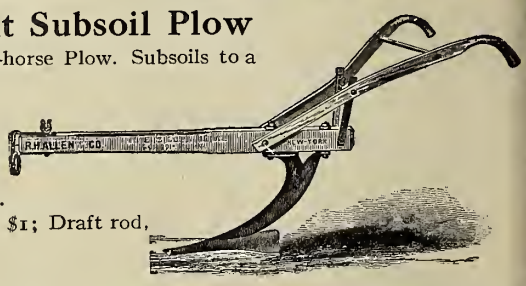
The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches in diameter. Price $22; one-horse size, $21.25.

## Patent Subsoil Plow

No. 16. One-horse Plow. Subsoils to a depth of 10 inches. $6.

No. 17. Two-horse Plow. Subsoils to a depth of 14 inches, $7.

Add for wheel, $1; Draft rod, $1.50.




## "Boss" Combination Plow

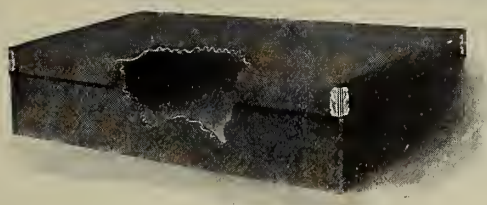
The handiest one-horse turning Plow for use by market-gardeners and farmers. Actually four Plows in one. It can be worked as a medium and heavy one-horse Plow, and as a Plow for operating among cabbage, strawberries, etc. $5.25.

With the double mold-board and share, $7.25.

## American Corn Planter

Is fitted with patent adjustable seed disc and spring-brass cut-off. Does accurate work. $2.

# Flower-Boxes, Baskets, Pots and Fiberware



Corrugated Flower Boxes

## Flower Boxes

**Cardboard, Flower.** Green; lock corners.

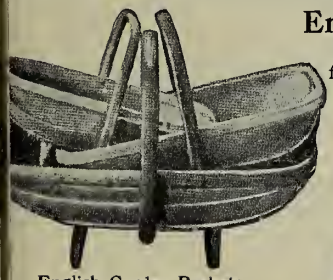
| | Depth | Length | Width | 100 |
|---|---|---|---|---|
| No. 1. | 3 in. | 18 in. | 5 in. | $3 00 |
| No. 2. | 3½ in. | 21 in. | 7 in. | 5 00 |
| No. 3. | 4 in. | 24 in. | 8 in. | 7 00 |
| No. 4. | 5 in. | 28 in. | 8 in. | 9 00 |
| No. 5. | 5 in. | 36 in. | 8 in. | 12 00 |

**Violet.—**

| | Length | Width | Depth | 100 |
|---|---|---|---|---|
| No. 5. | 11 in. | 5½ in. | 8 in. | $7 00 |
| No. 10. | 9 in. | 5 in. | 6 in. | 5 00 |

**Corrugated Cardboard.** Very heavy and durable; extensively used by florists for shipping cut-flowers.

| No. | Length | Width | Depth | Doz. | 100 |
|---|---|---|---|---|---|
| A. | 20 in. | 7 in. | 4 in. | $1 20 | $9 00 |
| B. | 28 in. | 8 in. | 5 in. | 1 50 | 11 00 |
| C. | 30 in. | 12 in. | 6 in. | 2 00 | 16 00 |
| D. | 36 in. | 14 in. | 8 in. | 3 00 | 22 00 |
| E. | 48 in. | 14 in. | 8 in. | 3 50 | 28 00 |

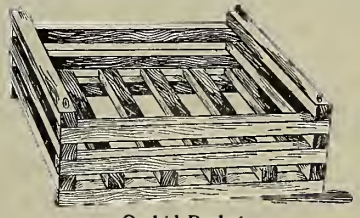


English Garden Baskets

## English Garden Baskets

Durable, light and handy for cut-flowers or vegetables.

| No. | Length | Width | Each | Doz. |
|---|---|---|---|---|
| 2. | 11½ in. | 6 in. | $0 40 | $4 50 |
| 4. | 15 in. | 8½ in. | 60 | 6 75 |
| 5. | 17½ in. | 9½ in. | 75 | 8 50 |
| 6. | 20½ in. | 10½ in. | 90 | 10 00 |
| 8. | 26 in. | 14 in. | 1 25 | 14 00 |
| 9. | 28 in. | 15 in. | 1 50 | 17 00 |



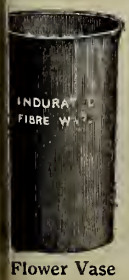
Orchid Basket

## Orchid Baskets

| Size | Doz. | 100 |
|---|---|---|
| 6 in. | $4 50 | $31 50 |
| 8 in. | 5 50 | 45 00 |
| 10 in. | 6 50 | 48 00 |
| 12 in. | 7 50 | 56 00 |

## Flower Vases. FIBERWARE, Waterproof

For displaying cut-flowers. Not easily broken like earthen-ware; do not rust like metal Vases. Order by number. Inside dimensions are given.



Flower Vase

| No. | Depth | Diam. | Each | Doz. |
|---|---|---|---|---|
| 0. | 13 in. | 8 in. | $0 70 | $6 85 |
| 1. | 10½ in. | 5½ in. | 60 | 5 90 |
| 2. | 9 in. | 4½ in. | 50 | 5 10 |
| 3. | 6½ in. | 4 in. | 45 | 4 25 |
| 4. | 5 in. | 3 in. | 40 | 3 35 |
| 00. | 21 in. | 9½ in. | 2 25 | 25 85 |
| 01. | 20 in. | 7 in. | 1 20 | 13 35 |
| 11. | 18 in. | 6 in. | 70 | 6 85 |
| 22. | 15 in. | 4½ in. | 60 | 5 90 |
| 33. | 12 in. | 4 in. | 50 | 5 00 |
| 44. | 9 in. | 3 in. | 45 | 4 25 |

## Azalea Pots, EARTHENWARE

| Diam. | Doz. | 100 | Diam. | Doz. | 100 |
|---|---|---|---|---|---|
| 5 in. | $0 45 | $2 70 | 8 in. | $1 50 | $10 00 |
| 6 in. | 75 | 4 50 | 9 in. | 2 00 | 15 00 |
| 7 in. | 1 25 | 7 50 | 10 in. | 2 75 | 20 00 |

## Flower Pots, Standard

**EARTHENWARE. Best on the market**

| Diam. | Doz. | 100 | 1,000 |
|---|---|---|---|
| 2 in. | $0 10 | $0 60 | $5 40 |
| 2½ in. | 12 | 80 | 7 20 |
| 3 in. | 15 | 1 10 | 9 90 |
| 4 in. | 35 | 2 00 | 18 00 |
| 5 in. | 45 | 2 70 | 24 30 |
| 6 in. | 75 | 4 50 | 40 50 |
| 7 in. | 1 25 | 7 50 | 67 50 |
| 8 in. | 1 50 | 10 00 | 90 00 |
| 9 in. | 2 00 | 15 00 | 135 00 |
| 10 in. | 2 75 | 20 00 | 180 00 |
| 12 in. | 6 00 | 40 00 | 360 00 |

Flower Pot

**Saucers of same material, to fit pots, furnished extra**

| Diam. | Doz. | 100 | 1,000 | Diam. | Doz. | 100 | 1,000 |
|---|---|---|---|---|---|---|---|
| 4 in. | $0 25 | $2 00 | $18 00 | 8 in. | $0 50 | $4 00 | $36 00 |
| 5 in. | 30 | 2 40 | 21 60 | 9 in. | 85 | 6 80 | 61 20 |
| 6 in. | 35 | 2 80 | 25 20 | 10 in. | 1 00 | 8 00 | 72 00 |
| 7 in. | 40 | 3 20 | 28 80 | 11 in. | 1 50 | 12 00 | 108 00 |

Flower Pot Saucers

## Flower Pot Saucers

**FIBERWARE, Waterproof**

Light and not readily broken; have a surface that will not scratch like earthenware. Order saucer 2 inches larger than the bottom diameter of pot.

| No. | Diam. outside | Each | Doz. | No. | Diam. outside | Each | Doz. |
|---|---|---|---|---|---|---|---|
| 5 | 5 in. | $0 12 | $1 25 | 10 | 10 in. | $0 18 | $1 80 |
| 6 | 6 in. | 14 | 1 40 | 12 | 12 in. | 20 | 2 00 |
| 7 | 7 in. | 15 | 1 50 | 14 | 14 in. | 30 | 3 00 |
| 8 | 8 in. | 16 | 1 60 | 16 | 16 in. | 45 | 4 80 |
| 9 | 9 in. | 17 | 1 70 | 18 | 18 in. | 60 | 6 60 |

## Bulb Pans. EARTHENWARE

| Diam. at top | Depth | Doz. | 100 |
|---|---|---|---|
| 8 in. | 4 in. | $1 00 | $8 00 |
| 10 in. | 5 in. | 1 50 | 12 00 |
| 12 in. | 6 in. | 2 00 | 16 00 |
| 14 in. | 7 in. | 4 00 | 32 00 |
| 16 in. | 8 in. | 8 00 | 64 00 |
| 18 in. | 9 in. | 12 00 | 96 00 |

Bulb Pans

Square Seed Pans

## Square Seed Pans

**EARTHENWARE**

| Size | Doz. | 100 |
|---|---|---|
| 6x 6 in. | $3 00 | $24 00 |
| 8x 8 in. | 4 00 | 32 00 |
| 10x10 in. | 5 00 | 40 00 |
| 12x12 in. | 6 00 | 48 00 |

## Paper Flower Pots, Neponset

Very economical; waterproof; can be nested closely for shipping.

Paper Pot

| Diam. | Doz. | 100 | 1,000 |
|---|---|---|---|
| 2½ in. | $0 10 | $0 50 | $4 00 |
| 3 in. | 12 | 70 | 6 00 |
| 3½ in. | 14 | 90 | 7 00 |
| 4 in. | 20 | 1 20 | 8 00 |
| 5 in. | 25 | 1 50 | 12 00 |
| 6 in. | 30 | 2 00 | 16 00 |

## Flower-Pot Brackets

Made of steel, artistic in design, finished in black. Saucers are absolutely secured by spring clasp.

| | | Each |
|---|---|---|
| No. 1A. | Length of arm 8 in. Clasp will hold 5-in. pot. | $0 30 |
| No. 2A. | Length of arm 10 in. Clasp will hold 6-in. pot. | 40 |
| No. 3A. | Length of arm 12 in. Clasp will hold 7-in. pot. | 45 |

## Flower-Pot Handles and Hangers

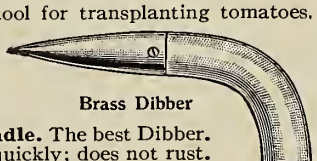
**(Krick's Perfect)**

| | | Doz. |
|---|---|---|
| No. 0. | Will fit from 2- to 3½-in. pots. | $0 20 |
| No. 1. | Will fit from 3½- to 5-in. pots. | 30 |
| No. 2. | Will fit from 5- to 8-in. pots. | 40 |
| No. 3. | Will fit from 8- to 12-in. pots. | 50 |

# Small Garden Tools

## Dibbles or Dibbers

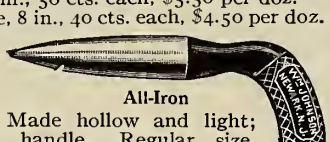
Just the tool for transplanting tomatoes, cabbage, celery, etc.



Brass Dibber

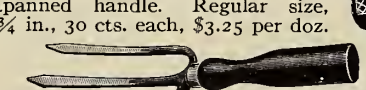
**Brass point and wood handle.** The best Dibber. Polishes quickly; does not rust. 65 cts. each, $7 per doz.

**Steel point and wood handle.** Regular size, 9¾ in., 50 cts. each, $5.50 per doz. Small size, 8 in., 40 cts. each, $4.50 per doz.



All-Iron

**All-Iron.** Made hollow and light; japanned handle. Regular size, 9¾ in., 30 cts. each, $3.25 per doz.

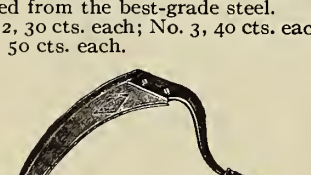


## Gem Hand Fork

Has three steel prongs and a finished handle. Is a handy Fork for transplanting strawberries, loosening the soil, etc. 30 cts. each.

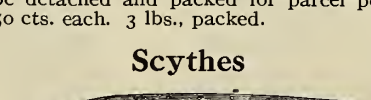
## Grass Hooks

**Imported English.** With heavy riveted back, thin cutting blade, easy to sharpen; forged from the best-grade steel.
No. 2, 30 cts. each; No. 3, 40 cts. each, No. 4, 50 cts. each.



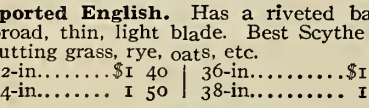
**Blue Ribbon.** Tempered steel blade; black-enameled handle. Used also for a Corn Hook and for clipping hedges. Blade can be detached and packed for parcel post. 50 cts. each. 3 lbs., packed.

## Scythes



**Imported English.** Has a riveted back, broad, thin, light blade. Best Scythe for cutting grass, rye, oats, etc.

| | | | |
|---|---|---|---|
| 32-in. | $1 40 | 36-in. | $1 60 |
| 34-in. | 1 50 | 38-in. | 1 75 |



**The Little Giant.** Has a ribbed back, is heavier and better adapted to rough work.

| | | | |
|---|---|---|---|
| 32-in. | $1 25 | 36-in. | $1 45 |
| 34-in. | 1 35 | 38-in. | 1 60 |

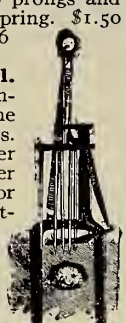
**Scythe Snath, or Handle.** The very best, with patent socket. $1.

Olmstead's Improved

## Mole Traps

**Olmstead's Improved.** This Trap is of regular size, 15½ inches high when set. It has a rest on top for a weight, also eight sharp prongs and a strong spiral spring. $1.50 each, $16 per doz.

**New Model.** Is very similar to the Olmstead's. It is smaller and better adapted for use in hot-beds; only 10½ inches high when set. Also has eight sharp prongs and a strong spiral spring. $1.40 each, $15 per doz.



New Model

**Reddick's.** $1 each, $10 per doz.

**Out-of-Sight.** 75 cts. ea., $8 per doz.

Line Reel

## Garden Line Reels

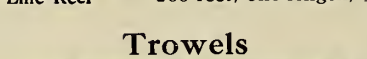
**Malleable Iron.** Holds 100 feet. 60 cts.

**Eureka.** Galvanized steel. Single, 500 feet size, $1.50. Double, 1,000 feet size, $2.

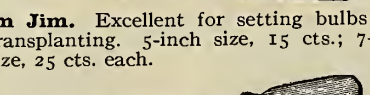
## Garden Line

**Best Braided Linen.** 100 feet, one length, 55 cts. 200 feet, one length, $1.

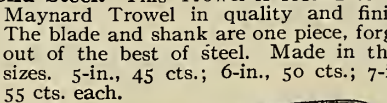
## Trowels



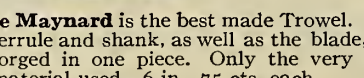
**Slim Jim.** Excellent for setting bulbs or transplanting. 5-inch size, 15 cts.; 7-in. size, 25 cts. each.



**Solid Steel.** This Trowel is second to the Maynard Trowel in quality and finish. The blade and shank are one piece, forged out of the best of steel. Made in three sizes. 5-in., 45 cts.; 6-in., 50 cts.; 7-in., 55 cts. each.



**The Maynard** is the best made Trowel. The ferrule and shank, as well as the blade, are forged in one piece. Only the very best material used. 6-in., 75 cts. each.



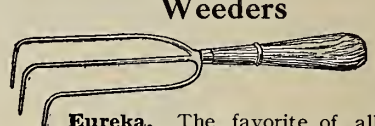
Florists' Steel Trowel

This Trowel is made in one piece of heavy sheet steel. One size only. 6-in., 25 cts. each.

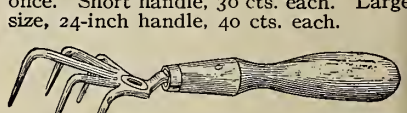
TROWELS, continued

**Transplanting.** Very handy for transplanting cabbage, tomatoes, etc. Solid steel shank and blade. 45 cts. each, $5 per doz.

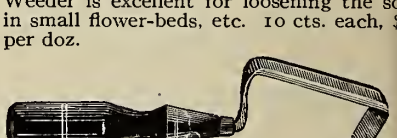
## Weeders



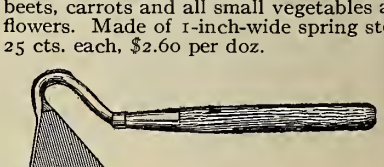
**Eureka.** The favorite of all hand Weeders. The three solid steel prongs are set 1½ inches apart to allow cultivating between two or more plants at once. Short handle, 30 cts. each. Larger size, 24-inch handle, 40 cts. each.



**Excelsior Finger.** This five-short-prong Weeder is excellent for loosening the soil in small flower-beds, etc. 10 cts. each, $1 per doz.

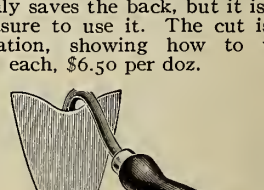


**Hazeltine's Hand.** Better known as Beet Weeder. A handy tool for weeding between beets, carrots and all small vegetables and flowers. Made of 1-inch-wide spring steel. 25 cts. each, $2.60 per doz.

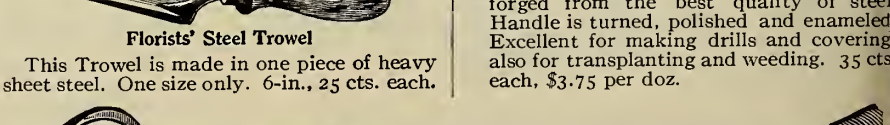


**Three-Cornered Onion.** For weeding onions, carrots, etc. Also for cleaning between rows. 30 cts. each, $3.30 per doz.

**Cleveland Lawn.** Is simple to operate; it not only saves the back, but it is actually a pleasure to use it. The cut is a good illustration, showing how to work it 60 cts. each, $6.50 per doz.



**Midget Warren Hoe.** Blade and shank forged from the best quality of steel. Handle is turned, polished and enameled. Excellent for making drills and covering also for transplanting and weeding. 35 cts each, $3.75 per doz.



Cleveland Lawn Weeder

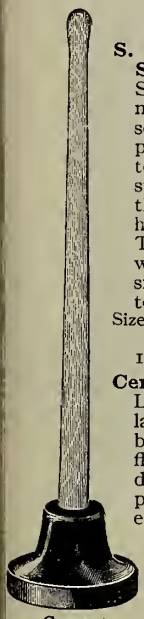
# Ash Cans, Garden and Lawn Tools

## Tampers

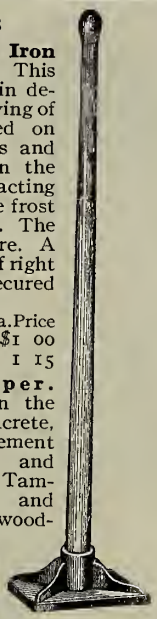
**S. & W. Co.'s Iron Sod Tamper.** This Sod Tamper is in demand for the laying of sod. It is used on putting-greens and terraces; also in the spring for compacting the sod after the frost has disappeared. The Tamper is square. A wooden handle of right size is firmly secured to the Tamper.

| Size, ins. | Weight lbs. | ea. Price |
|---|---|---|
| 8x8 | 17 | $1 00 |
| 10x10 | 20 | 1 15 |

**Cement Tamper.** Largely used in the laying of concrete, brick and cement floors, walks and driveways. The Tamper is round and equipped with a wooden handle, the same as the sod tamper. 5-in. diam., 15 lbs., 90c. ea. 6-in. diam., 20 lbs., $1.15 ea.



Cement Tamper

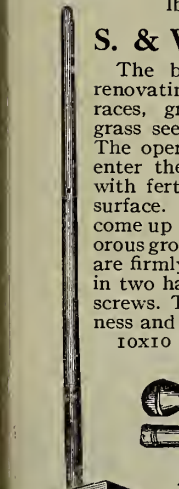


S. & W. Iron Tamper

## S. & W. Sod Perforator

The best low-priced device for renovating bad spots in lawns, terraces, greens, etc. Before sowing grass seed, use the Sod Perforator. The operation permits the seed to enter the soil, where it is covered with fertilizer or by sprinkling the surface. The seed will germinate and come up uniformly, producing a vigorous growth of rich grass. The spikes are firmly set in an oak block, made in two halves and put together with screws. The handle is the right thickness and length. Made in two sizes.

10x10 in..$2.75 10x14 in..$3.00



Sod Perforator

## Asparagus Knives

**Imported English.**

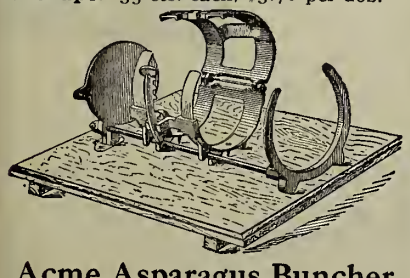
**Saw-Tooth, Plain.** $1.25 each, $14 per doz.

**Highly Finished.** $1.50 each, $17 per doz.

**American Asparagus Knives.**

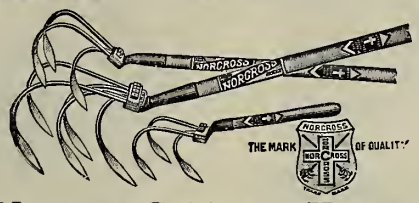
**Straight Edge.** 40c. each, $4.30 per doz.

**V-Shape.** 35 cts. each, $3.70 per doz.



## Acme Asparagus Buncher

No. 1 makes bunch 3 to 3½ in. diam. No. 2 makes bunch 4 to 4½ in. diam. Length, adjustable, 7 to 9 in. $2 each.




## Norcross Cultivator Hoe and Weeder

Wherever vegetables, plants and flowers are grown, these modern tools are rapidly replacing the ordinary hoe. They are made in three sizes, and can be used in wide or narrow rows. Will also cultivate both sides of a row at one operation, when the middle prongs are removed. The three-prong weeder is the women's size. They destroy weeds, leave the soil level, loose and untrampled.

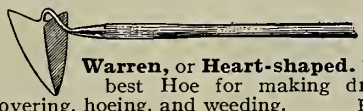
5-prong, 75c.; 3-prong, 50c.; Midget 25c.

## Hoes

**English Scuffle Hoe.** Imported. Positively the best. The quality of material used and finish is superior to all others.

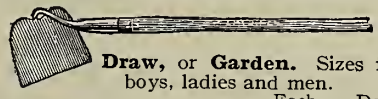
| Size | Each | Size | Each |
|---|---|---|---|
| 4-in. | $0 40 | 8-in. | $0 80 |
| 5-in. | 50 | 9-in. | 90 |
| 6-in. | 60 | 10-in. | 1 00 |
| 7-in. | 70 | 12-in. | 1 25 |

Extra-strong handles, 4½ ft., 15 cts.; 6 ft. 20 cts. each.



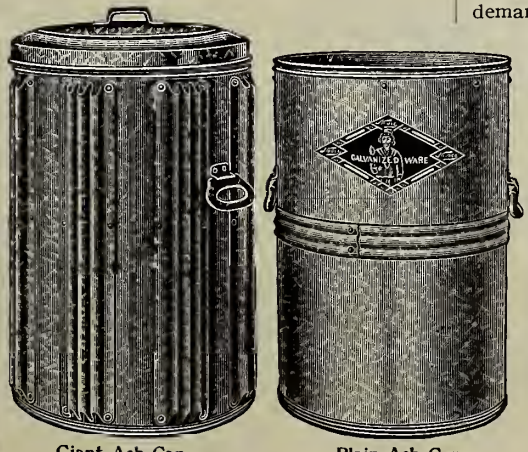
**Warren,** or **Heart-shaped.** The best Hoe for making drills, covering, hoeing, and weeding.

| | Each |
|---|---|
| Small size | $0 70 |
| Medium size | 80 |
| Large size | 90 |



**Draw,** or **Garden.** Sizes for boys, ladies and men.

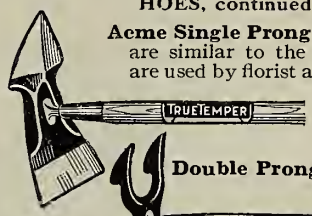
| | Each | Doz. |
|---|---|---|
| 4- and 5-in. | $0 40 | $4 30 |
| 6-, 7-, and 7½-in. | 50 | 5 50 |
| 8-in. | 55 | 6 00 |



Giant Ash Can

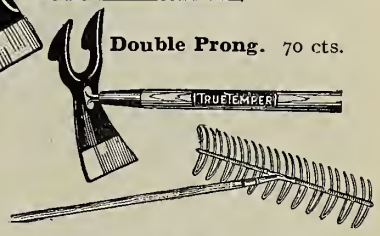
Plain Ash Can

HOES, continued



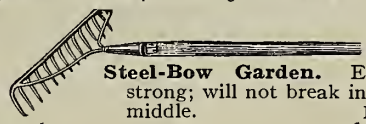
**Acme Single Prong.** Acme Hoes are similar to the Warren, and are used by florist and gardeners. 60 cts. each.

**Double Prong.** 70 cts.



## Rakes

**Reversible Steel.** Suitable for lawn and garden. Has 24 teeth. 50 cts. each.



**Steel-Bow Garden.** Extra strong; will not break in the middle.

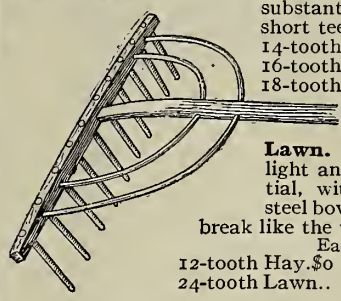
| | Each |
|---|---|
| 11-tooth | $0 75 |
| 13-tooth | 80 |
| 15-tooth | 85 |

**Steel Garden.** Cut from one piece of steel; strong and durable.

| | Each | | Each |
|---|---|---|---|
| 10-tooth | $0 60 | 14-tooth | $0 70 |
| 12-tooth | 65 | 16-tooth | 75 |

**Steel Gravel.** Like the Garden Rake. Made substantial, with short teeth.

| | Each |
|---|---|
| 14-tooth | $0 70 |
| 16-tooth | 80 |
| 18-tooth | 90 |



**Wood Hay and Lawn.** Made light and substantial, with tubular steel bow; does not break like the wood bow.

| | Each | Doz. |
|---|---|---|
| 12-tooth Hay | $0 45 | $4 90 |
| 24-tooth Lawn | 50 | 5 50 |

## Galvanized Ash Cans

Used largely for ashes and refuse; are in demand in poultry plants, for poultry-feed and refuse. Sizes for all purposes.

**Giant.** Are extra-strong, being reinforced with steel ribs.

| No. | Diam. | Depth | Each |
|---|---|---|---|
| 170 | 15 in. | 26 in. | $2 35 |
| 180 | 17 in. | 26 in. | 2 50 |
| 190 | 18 in. | 26 in. | 2 75 |
| 200 | 20 in. | 26 in. | 3 25 |

**Plain.** Used more as feed cans.

| No. | Diam. | Depth | Each |
|---|---|---|---|
| 2½ | 14 in. | 18 in. | $1 30 |
| 3 | 15 in. | 26 in. | 1 65 |
| 4 | 17 in. | 26 in. | 1 95 |
| 5 | 18 in. | 26 in. | 2 25 |
| 6 | 20 in. | 26 in. | 2 55 |

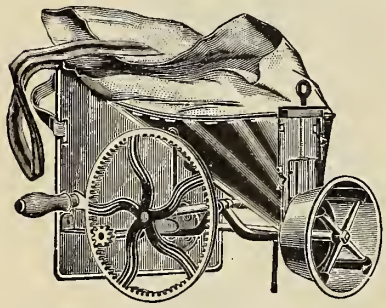
**Covers.** To fit each style.

| No. | Diam. | Each |
|---|---|---|
| 12 | 14 in. | $0 30 |
| 13 | 15 in. | 35 |
| 14 | 17 in. | 40 |
| 15 | 18 in. | 45 |
| 16 | 20 in. | 50 |

# Grass Seed and Fertilizer Sowers

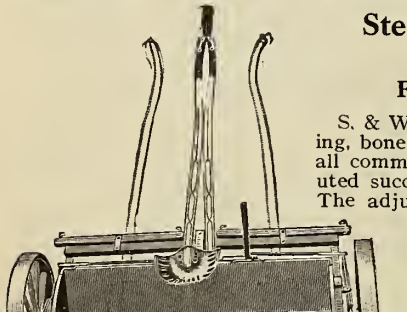
## S. & W. Co.'s No. 5 Wheelbarrow Seed Sower

For over thirty years this has been a valuable and indispensable broadcast Seed Sower. Over 200,000 have been sold. We recommend this practical machine for sowing all grass mixtures. It is provided with a double hopper, 14 feet in length and well balanced. One side of this seed hopper is adapted for all heavy seeds, such as timothy, clover, alfalfa, millet, etc. The opposite side sows the light, chaffy seeds, such as red-top, blue grass, bent grass, orchard grass, etc. The machine is simple to operate. A boy can work it. The operator can easily regulate the machine to sow any desired quantity to the acre. It does not clog and will sow evenly an area 14 feet wide. Full directions are in each hopper. Weight, 45 lbs. Price, $12.



## Cahoon's Improved Broadcast Seed Sower

This is the only Broadcast Seed Sower that has come to stay. It is well known as a practical and cheap broadcaster. Wheat, rye, oats, barley, hemp, timothy, millet and Hungarian grass are used in this Seeder. The operator can sow from four to eight acres an hour, walking at an ordinary gait. The seed is scattered from 8 to 20 feet on each side of the operator, according to the kind of seed. The heavy seed, like wheat, is scattered the greatest distance. Packed weight, 8 lbs. Can be sent by parcel post. Price, $3.50.



Stevens' Fertilizer Sower

## Stevens' Fertilizer Sower

### For Horse-Power

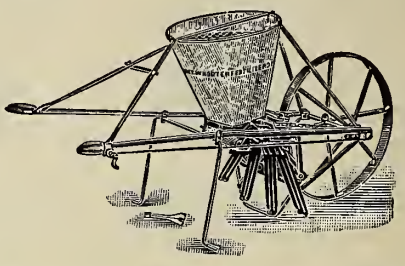
S. & W. Co.'s Emerald lawn dressing, bone meal, lime, wood-ashes and all commercial fertilizers are distributed successfully with this machine. The adjustment is perfect, simple and strong. Any desired quantity, from 200 pounds to 4,000 pounds to the acre can be distributed. Combined shafts and pole, with neck-yoke and whiffletrees are furnished with each machine.

Size for covering a width of 5 feet 10 inches, $46.

Size for covering a width of 8 feet 3 inches, $52.

## Stevens' Fertilizer Sower For Top-Dressing Lawns

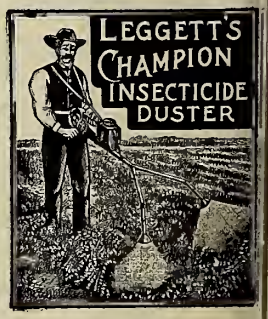
Has the same adjustment as the horse-power machine and will sow all commercial fertilizers. The hopper is 34 inches long and holds one and one-half bushels. Beside top-dressing lawns, greens, etc., it is a handy machine for all kinds of garden and field work. When two blades are removed, it will sow damp sand. Also is an excellent machine in the winter for covering icy roads and walks with sawdust, sand, etc. Shipping weight, 83 lbs. Price, $12.



## McWhorter Man-Power Fertilizer Distributor

Any commercial fertilizer can be applied with it in any desired quantity from three to forty pounds to 100 yards of row. It will distribute broadcast, or in furrows, or between rows, or both sides of one, two, three or four rows, according to their distance apart, at one operation. The fertilizer is forced through eight distributing spouts, which may be contracted to cover a 4-inch strip; or they may be spread into any position not exceeding 2½ feet in width. For top-dressing strawberry beds, lawns, etc., as well as for rowed crops, it is a boon. Easily worked by man or boy. Weight, 61 lbs. Price, $11.

## Leggett's Champion Dry-Powder Duster




This is an indispensable machine where time and labor are considered. The weight is only six pounds. Simple to operate. Any farm hand, even a boy, can operate it; two rows can be dusted at once, and as fast as the operator may walk. Some crops are destroyed by insects for the want of a good duster. This is worth more than its cost in one season. It will dust paris green, tobacco dust and all dry-powdered insecticides and fungicides. When using paris green, we recommend the mixing of dry air-slaked lime, using equal parts, or one of paris green to three or four parts of lime, according to the strength of the plants. Is also useful for dusting shrubs and trees. The machine includes four 16-inch tubes, six nozzles and two straps. Shipping weight, 17 lbs. Price, $8.

## Little Giant Duster

Very similar to the Champion, but of smaller capacity. Very handy and efficient. For low-growing plants only. Shipping weight 15 lbs. Price, $6.

# Lawn Cleaners, Rubbish Burners and Lehman's Heaters

## Pennsylvania Lawn Cleaner and Rake

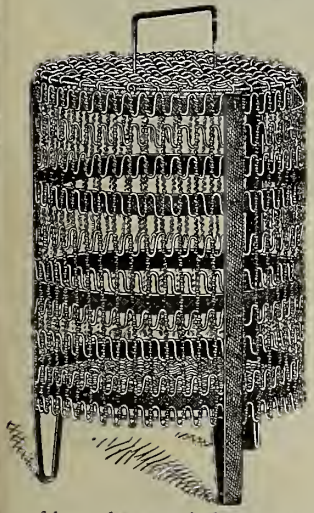
This machine will remove from the lawn not only the cut grass, but all sorts of litter, leaves and trash, leaving the grass standing upright and free from foreign matter that prevents the sunlight and dew from getting to the roots.

The metal teeth rake up everything on the surface of the lawn and, in combination with the current of air, carry it to the canvas receptacle or basket, which is large and easily emptied when full.

The suction created by the three rapidly revolving rakes cleans the lawn on the same principle as the vacuum cleaner operates on carpet.

The Pennsylvania Lawn Cleaner and Rake is easy to operate, and with it one man will do more and better work than four men with hand rakes.

| Width | Shipping weight | Price |
|---|---|---|
| 24 in. | 100 lbs. | $16 00 |
| 36 in. | 125 lbs. | 25 00 |



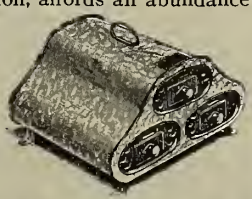
## The Standard Rubbish Burner

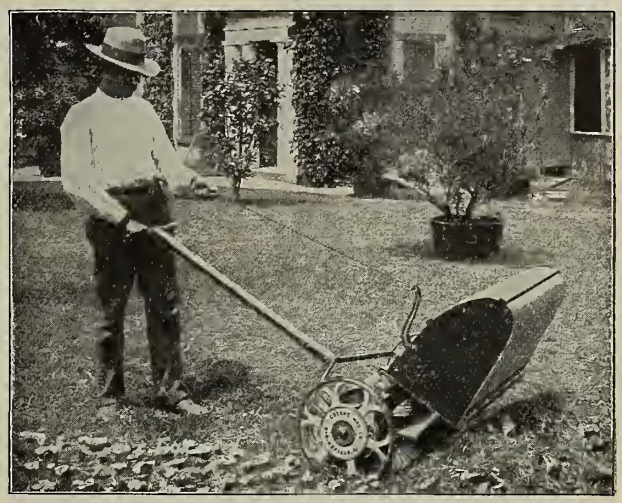
The best receptacle used for burning leaves, paper and all kinds of rubbish. This handy Burner is a safeguard against many fires that have their origin from the burning of rubbish in the open. The Burner is extra strong, manufactured of heavy galvanized steel wire, reinforced with iron supports. Made to give life-long satisfaction. We supply this Burner in three sizes.

| No. | Diam. | Height | Weight | Each |
|---|---|---|---|---|
| 2 | 15 in. | 24 in. | 16 lbs. | $2 75 |
| 2½ | 18 in. | 30 in. | 22 lbs. | 3 50 |
| 3 | 20 in. | 35 in. | 33 lbs. | 4 25 |

## Lehman's Heater Style 10

For florists, ambulance, van or brewery. This Heater, as will be noted from the illustration, affords an abundance of heat, because it has three coal compartments or drawers, all of which can be fired at one time. It is made of extra-heavy galvanized metal, with brass trimmings. Mounted on iron feet, with holes so that it can be screwed down to the bottom of wagon or other conveyance. This Heater is an ideal one for any purpose where a large amount of heat is required, or it can be made to furnish a small amount of heat by burning one or two drawers. Self-ventilating; extra strong and durable. Length, 14 inches; height, 16 inches; weight, 15 lbs. Price, $7.25.





## The Apollo Rotary Lawn Sweeper

A thoroughly satisfactory machine for cleaning putting-greens and golf-links of worm casts, dead grass, stones and all other obstructions. It operates very similar to a carpet-sweeper. On the front of the Sweeper is attached a good-sized hopper; this, when filled, is dumped very easily by drawing it up with a chain. It is simple, strong and easily pushed. A boy can operate it. An adjustment on the right-hand side raises and lowers the brushes. On private estates this machine does excellent work; it leaves the lawns in beautiful condition. Once over the lawns with this machine after mowing gives a bright green color. It is also a valuable machine for sweeping walks, warehouse and stable-floors, etc. Rubber-tired wheels can be furnished at an extra charge. Made in two sizes.

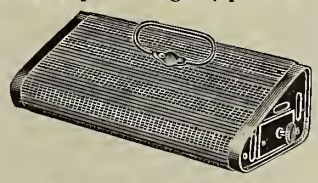
Width, 24-in. ..... $16 00 Width, 28-in. ..... $18 00

## Lehman's Heater Style 3-C

Non-rusting; extra-fine galvanized metal; gravel insulation retains heat and gives strength; the Gibraltar of heaters—lasting, substantially indestructible. Polished brass ends with overlap, fluted bands extending over coverings. Covered with velvet carriage-carpet—blue, brown, gray, maroon or green. Self-ventilating; center brass handle. Length, 14 inches; weight nine pounds. The equal of any $7 heater made. Price, $4.

## Style O-B

Made similar to the No. 3-C in size and shape. Self-ventilating; polished brass ends. Brass end-handles. Covered with green brussels carpet. Weight 7 pounds. Price, $1.75.



## Style 11-B

Made of the highest-grade galvanized metal; non-rusting. Has heavy polished brass ends with extension band border over the cover edges. Its shape is triangular. Adjustable end ventilator. Covered with excellent-quality green brussels carpet. Asbestos lining. Length, 14 inches. An excellent foot-rest; popular in service and price. Weight, 6 lbs. Price, $1.75.

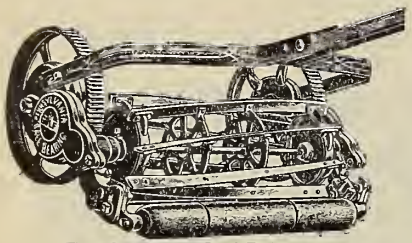
## Lehman's Coal

Radiates a steady, uniform heat, at a cost of less than half a cent an hour. Absolutely no gas, smoke or odor is emitted from the coal when burning. Directions for using coal are furnished with each box of coal.

**Lehman's Improved Coal.** Standard-size bricks, 7⅛x2½x2½ inches. Will burn from nine to ten hours. Price per box of 12 bricks, 75 cts.

**Lehman's Coal in Livery Cases.** For convenience of those using larger quantities of coal, Lehman's Improved Coal packed 100 full bricks, or their equivalent, in one-third and one-half bricks to case. Only one size to a case. Price per case, $5.

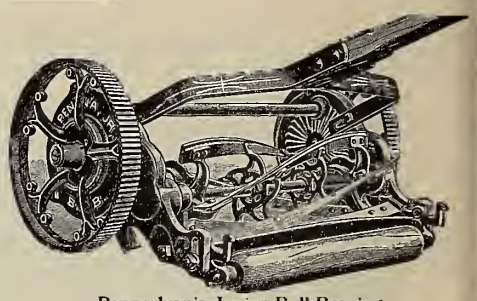
# LAWN MOWERS



The Aristocrat Golf Ball-Bearing

## The Aristocrat

The Aristocrat is giving the best service of any ball-bearing hand Mower used on a golf-course or putting-green. Positively the best materials and workmanship are used in the construction of these machines. Every knife is put through three processes of tempering. Extra care is taken to have each blade shaped properly and alike. Special forms are made for each style of Mower. The sectional iron roller overcomes the jumping frequently found in some of the cheaper Mowers. This Mower will shave the lawn to 3-16 of an inch. It is used exclusively on many of the best golf-courses, putting-greens, tennis-courts and cricket-creases. 17-inch, $20; 19-inch, $22; 21-inch, $24.



Pennsylvania Junior Ball-Bearing

## Pennsylvania Junior Ball-Bearing

The perfection of Lawn Mower construction. Double train of three gears, five blades, raised edge, self-sharpening lower knife, dustproof, extra-hardened ball-bearings. Positively the latest in Lawn Mower building. High wheel, 10 inches.

| | | | |
|---|---|---|---|
| 15-inch | $13 00 | 19-inch | $16 00 |
| 17-inch | 14 50 | 21-inch | 17 50 |

## Pennsylvania Ordinary Lawn Trimmer

Has not the undercut feature, but is a good, four 6-inch-blade, ball-bearing machine, well adapted to cutting the grass around shrubbery, flower-beds, trees, walks, etc. A pleasure to the person operating it. $5.

## Braun Grass Catcher

Fit Pennsylvania Mowers only. Canvas sides and galvanized-iron bottoms. 15-inch, $1.60; 17-inch, $1.75; 19-inch, $1.90.

## Pennsylvania Lawn Trimmer

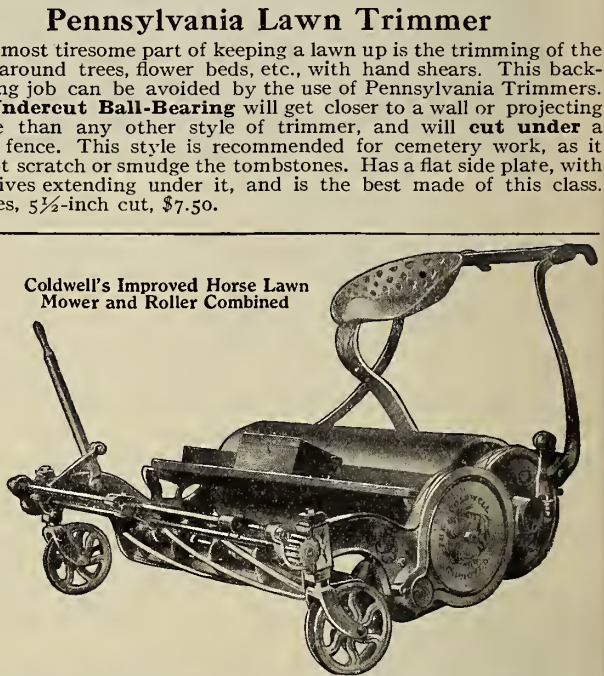
The most tiresome part of keeping a lawn up is the trimming of the edges, around trees, flower beds, etc., with hand shears. This back-breaking job can be avoided by the use of Pennsylvania Trimmers. The **Undercut Ball-Bearing** will get closer to a wall or projecting surface than any other style of trimmer, and will **cut under** a picket fence. This style is recommended for cemetery work, as it will not scratch or smudge the tombstones. Has a flat side plate, with the knives extending under it, and is the best made of this class. 4 knives, 5½-inch cut, $7.50.

## Coldwell's Improved Horse Lawn Mower and Roller Combined

Is acknowledged by the trade in general to be the best Horse Lawn Mower made. In material, workmanship and finish it is unsurpassed. Positively guaranteed by the manufacturer to give entire satisfaction. It is used in the principal parks of New York and other cities. It is in demand by nearly all the clubs throughout the country, for the golf-courses, putting-greens, etc. Thousands are in use on private estates. From the seat the operator can push a lever and throw the cutting parts out of gear at will, also raise and lower the cutting knives. The side draft-rod keeps the horse on the cut grass. The cutting parts are raised and thrown out of gear when crossing walks or driveways, or when rolling them. Complete with shafts, side-draft and seat. Prices strictly net.

| Size | Gross weight | Net weight | Price |
|---|---|---|---|
| 30-inch cut | 560 lbs. | 465 lbs | $65 00 |
| 35-inch cut | 625 lbs. | 522 lbs | 75 00 |
| 40-inch cut | 650 lbs. | 550 lbs | 90 00 |

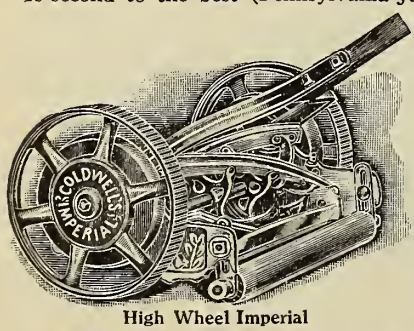
Coldwell's Improved Horse Lawn Mower and Roller Combined



## Coldwell's Imperial Lawn Mowers

Is second to the best (Pennsylvania Junior) in quality of material used and workmanship. High wheel, 10 inches in diameter; four blades and double-edge bottom knife. Can be reversed when dull and back edge used. Adjustment is perfect; it runs easily and noiselessly.

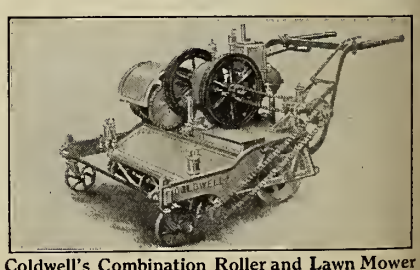
| Size | Price | Grass Catcher | Size | Price | Grass Catcher |
|---|---|---|---|---|---|
| 14-inch | $9 00 | $1 75 | 18-inch | $11 00 | $2 25 |
| 16-inch | 10 00 | 2 00 | 20-inch | 12 00 | 2 50 |




High Wheel Imperial

## Coldwell's Combination Roller and Motor Lawn Mower, Style F

Designed for use on small estates, tennis-grounds, etc., not sufficiently large to warrant the purchase or use of one of the larger and heavier machines. This machine cuts a swath 40 inches wide, is equipped with a two-horse-power motor, capable of propelling the motor through almost any height of lawn grass and up grades as steep as 25 per cent. It is also equipped with Coldwell's patented demountable cutting unit. This device is an extra cutter part composed of the revolving and stationary knives, and the necessary parts to carry them, which can be removed from the machine in a few moments and replaced by the other unit, which is shipped with this Mower at no extra charge. It is also equipped with a new patented device for raising the knives when crossing gravel walks, roads, etc., thus protecting them from injury. Clutches are provided to throw the traction rollers, as well as the revolving cutters, in and out of gear. The workmanship and finish of this Mower is guaranteed. Price, including extra cutting unit, $475.



Coldwell's Combination Roller and Lawn Mower

Leather Horse Boot

## Leather Horse Boots, Quality Kind

Easily attached to the horse's feet; prevents marring the lawns. Frequently after rains, or in the spring, the lawns are soft and easily cut up. Use a good leather boot and save the lawn. Quality Kind are made good. Double-thick soles and uppers reinforced; heavy parts put together with copper rivets. Small size, $10; large size, $10.75.

# Lawn Mowers, Rollers and Hose Reels

Coldwell's Chain Roller Mower

## Coldwell's Chain Roller Mower

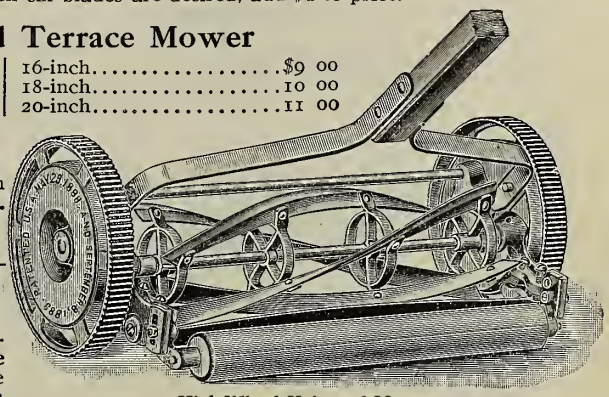
This Roller Mower is designed especially to meet the demand for a machine that will more perfectly cut borders, terraces, verges, etc., and still retain all other features required in a Mower for general work with four blades.

| Size | Gross weight | Net weight | Price |
|---|---|---|---|
| 12-inch | 65 lbs. | 48 lbs. | $10 50 |
| 14-inch | 70 lbs. | 52 lbs. | 11 75 |
| 16-inch | 78 lbs. | 55 lbs. | $13 00 |
| 18-inch | 90 lbs. | 67 lbs. | 14 00 |
| 20-inch | 98 lbs. | 71 lbs. | 15 00 |

This Mower is also made with gears. The chain roller is preferred, although the prices of both Mowers are the same. When six blades are desired, add $1 to price.

## Easy Border and Terrace Mower

| | |
|---|---|
| 10-inch ..... $6 00 | 16-inch ..... $9 00 |
| 12-inch ..... 7 00 | 18-inch ..... 10 00 |
| 14-inch ..... 8 00 | 20-inch ..... 11 00 |



High-Wheel Universal Mower

## High-Wheel Universal Mower

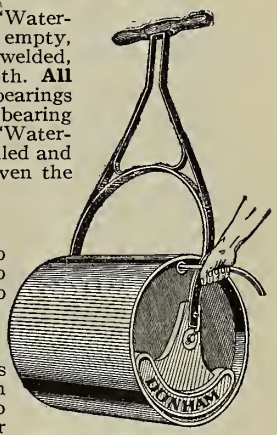
The best low-priced machine made with ball-bearings. Has 9-inch traction wheels; flexible bottom knife, self-sharpening. Adapted to use on small lawns. Light and very easy running. A good Mower for ladies or children to operate.

12-inch, $5; 14-inch, $5.50; 16-inch, $6; 18-inch, $6.50; 20-inch, $7.

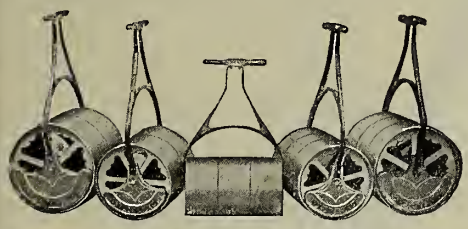
## The Dunham "Water-Weight" Lawn Roller

The Dunham "Water-Weight" Roller with handle weights is the most satisfactory and serviceable Roller ever produced for general purposes. The handle weights (shown in the illustration) are to counterbalance the weight of the handle, and keep it in an upright position off the ground, otherwise the wooden handle bar would soon rot and metal handle-frame become incrusted with rust. Insist upon a Roller having handle weights, as they also add speed and ease of operation to the Roller. The "Water-Weight" Roller can be filled with water or sand to the required weight. The smallest model weighs 120 pounds empty, 260 pounds filled with water, and 360 pounds filled with sand. The Dunham "Water-Weight" Roller is electric welded, making the water section one solid drum; no rivets are used; it cannot leak. The rolling surface is perfectly smooth. **All Dunham Rollers are roller-bearing.** The axles are high-carbon steel, perfectly round, and revolve in roller-bearings of the same style as used in automobile construction. Actual tests have proved that the Dunham Roller-bearing Roller can be operated with 44 per cent less energy or power than is required to run any other Roller. The "Water-Weight" feature enables the weight of the Dunham Roller to be adjusted to the conditions of the soil to be rolled and the strength of the operator. The Dunham "Water-Weight" Roller can be filled without standing it on end. Even the largest size can be operated by one man.

| No. | Diam. in. | Length in. | Sections | Weight empty | Filled with water | Price |
|---|---|---|---|---|---|---|
| 2 | 14 | 20 | 1 | 120 | 260 | $11 25 |
| 4 | 18 | 24 | 1 | 135 | 360 | 13 00 |
| 6 | 24 | 24 | 1 | 185 | 560 | 16 50 |
| 8 | 24 | 32 | 1 | 200 | 710 | $18 50 |
| 10 | 18 | 24 | 2 | 160 | 360 | 17 50 |
| 12 | 24 | 32 | 2 | 230 | 710 | 23 00 |



Fill with Water or Sand

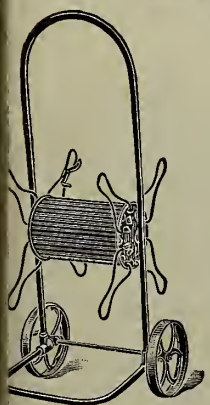


Cast-Iron Hand Lawn Rollers

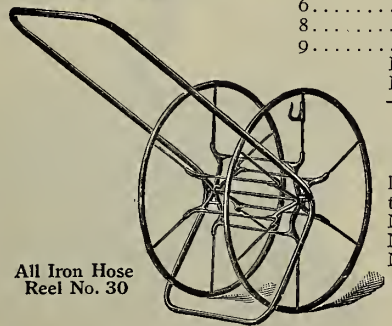
## Cast-Iron Hand Lawn Rollers

Made in one, two and three sections. The face of each Roller is made smooth, with outer edges rounded to avoid cutting the lawn or garden. Roller-bearing, outside counterbalancing weights to keep the handles in an upright position. The Rollers of two or more sections are preferable, as they will not injure the grass when turning. The best one-man Rollers are those averaging from 250 lbs. to 500 lbs.

| No. | Sections | Diameter | Length | Weight | Price |
|---|---|---|---|---|---|
| 1 | 2 | 15 in. | 16 in. | 150 lbs. | $9 00 |
| 2 | 3 | 15 in. | 24 in. | 200 lbs. | 11 00 |
| 4 | 2 | 20 in. | 20 in. | 250 lbs. | 13 00 |
| 6 | 3 | 20 in. | 24 in. | 300 lbs. | 15 00 |
| 8 | 3 | 20 in. | 30 in. | 350 lbs. | 18 00 |
| 9 | 2 | 24 in. | 20 in. | 400 lbs. | 21 00 |
| No. 11 | 3 | 24 in. | 24 in. | 450 lbs. | 22 50 |
| No. 12 | 3 | 24 in. | 30 in. | 500 lbs. | 25 50 |



K. C. Hose Reel



All Iron Hose Reel No. 30

## All-Iron Hose Reel

The All-Iron Hose Reels are constructed entirely of iron, and are indestructible; light in weight, frictionless, and the wheels being high make it easily manipulated; these Reels cannot tip over when unreeling and there is no weight on the handle.

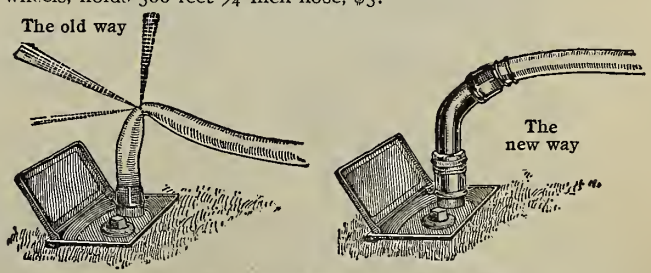
No. 10, 21-in. wheels, holds 100 feet ¾-inch hose, $3.25.
No. 20, 24-in. wheels, holds 150 feet ¾-inch hose, $3.50.
No. 30, 30-inch wheels, holds 500 feet ¾-inch hose, $5.

## K. C. Hose Reel

This low-priced Hose Reel is of all-metal tubular frame, with a corrugated drum to allow circulation under hose. $2.

## The Chicago Goose-Neck Swivel

as illustrated saves the hose from kinking and breaking. This can be attached to any hydrant with ¾-inch connection. Made of polished brass. The cost of this valuable device is small compared with the damage done to hose by kinking at the hydrant. 75c. each, $8 per doz.

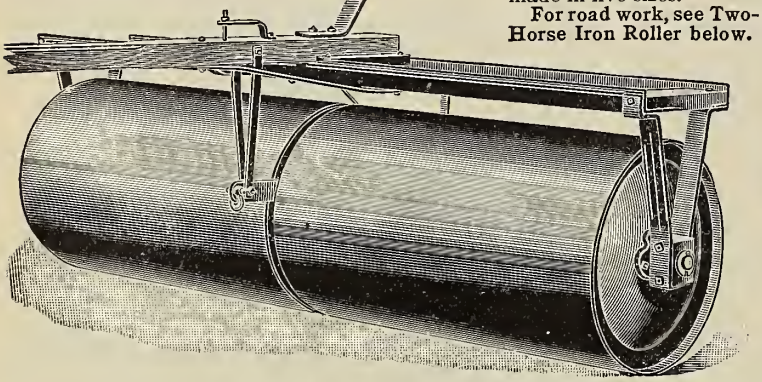



Chicago Goose-Neck or Hydrant Swivel

## Steel Two-Horse Land Roller

For field-rolling and general farm work this Steel Land Roller is unexcelled. It is thoroughly rigid, with solid pressed-steel heads, thus preventing the Roller filling with soil and rusting, like open-end Rollers that are used for this purpose. A moderate-priced Roller made in five sizes.

**For road work, see Two-Horse Iron Roller below.**



| No. | Diameter | Sections | Length | Weight | Price |
|---|---|---|---|---|---|
| 1 | 24 in. | 2 | 8 ft. | 540 lbs. | $27 00 |
| 2 | 24 in. | 3 | 8 ft. | 570 lbs. | 29 00 |
| 3 | 26 in. | 2 | 8 ft. | 565 lbs. | 28 00 |
| 4 | 26 in. | 3 | 8 ft. | 635 lbs. | 30 00 |
| 5 | 30 in. | 2 | 8 ft. | 650 lbs. | 35 00 |

**WHIFFLETREES AND NECK YOKE,** suitable for two horses, $4 extra.

## Iron Two-Horse Roller

### Suitable for Roads, Lawns and Golf-Courses

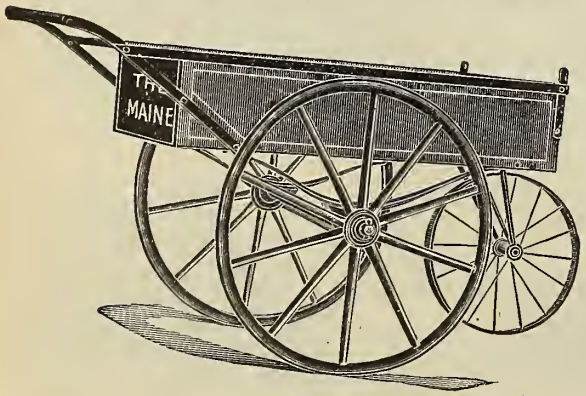
This Two-Horse Iron Roller is manufactured to do heavy work. Has been used with excellent success on golf-courses and private estates, on roads, lawns and putting-greens. This is the best draft Roller on the market. It has babbit-metal bearings, pulls directly from the axle, and is so perfectly balanced that there is no weight on the team. It is equipped with two all-steel weight-boxes, at top and in front of rolls—a construction not found in any other make.

| No. | Diameter | Length | Sections | Weight | Price |
|---|---|---|---|---|---|
| 71 | 20 in. | 72 in. | 6 | 1,300 lbs. | $64 00 |
| 72 | 24 in. | 60 in. | 5 | 1,450 lbs. | 73 00 |
| 73 | 24 in. | 72 in. | 6 | 1,700 lbs. | 83 00 |
| 75 | 28 in. | 60 in. | 5 | 1,650 lbs. | 82 00 |
| 76 | 28 in. | 72 in. | 6 | 1,950 lbs. | 95 00 |
| 77 | 32 in. | 48 in. | 4 | 2,200 lbs. | 115 00 |
| 78 | 32 in. | 60 in. | 5 | 2,600 lbs. | 130 00 |
| 79 | 32 in. | 72 in. | 6 | 3,000 lbs. | 150 00 |

**WHIFFLETREES AND NECK YOKE,** suitable for two horses, $4 extra.
For steel scraper, add $6. For additional weight, add 5 cts. per lb.

## The Maine Hand-Cart

A very handy Cart for all general purposes. Size of body, 39 x 20½ inches, x 8 inches deep, with 30-inch side wheels and 18-inch front wheel. Strong and durable; capacity, 300 lbs. $15.




## The Monitor Hand-Cart

has full steel frame and steel wheels. Size of body, 39 x 20½ inches by 9½ inches deep. Side wheels are 26 inches in diameter, front wheel is 14 inches in diameter. Capacity 300 lbs. $17.

## Steel One-Horse Lawn Roller

**Designed to Keep Lawns, Driveways, and Walks of Golf, Tennis and Country Clubs and Private Estates Smooth and in Good Condition.**

The most popular sheet-steel Roller on the market. The drums are of high-carbon steel, rolled into a perfect cylinder, and head inserted in such a way that there in no crimping. The head is of a special patented design, with heavy channel spokes countersunk in the hub and riveted to the T-bar steel felloe. Bearings and bearing boxes closed on end, dust-proof, oiled from the top, and recessed to receive oil waste to last all season. Axle heavy machine steel, lathe-turned and polished on ends; no pin through end to bind. Frame stiff angle-steel, made to carry weights if necessary.

| No. | Diam. | Sections | Length | Weight | Price |
|---|---|---|---|---|---|
| 2 | 24 in. | 2 | 65 in. | 413 lbs. | $30 00 |
| 4 | 30 in. | 2 | 65 in. | 497 lbs. | 38 00 |

## "Velvetlawn" Seeder

The "Velvetlawn" Seeder is producing first-class lawns all over the country, with a reduced cost and a saving in grass seed. This machine sows the seed in and not on top of the soil. Wind, heavy rains and birds cannot disturb the seed. The soil is opened at a uniform depth, with eight discs, set 2 inches apart; to each disc is connected a spout, through which the seed passes from the hopper; the seed is evenly distributed, a lever attached to the hopper regulates the quantity of seed to be sowed. Each disc is followed with a roller, which closes the furrow, compacts the soil and insures a good lawn. To secure a velvety lawn it is necessary to sow and cross-sow. The machine sows a strip 16 inches wide, and will finish an area of 50x150 feet in thirty minutes. In addition to all grass seeds, this machine will sow ground sheep manure, bone meal, screened wood-ashes and ground lime. Price $15.

We supply also a Horse-Power Seeder for $50. Send for free book, full of good instruction on lawns.

**For Hand Rollers, Water-Weight and Cast-Iron, see page 131.**
**For Horse and Hand Lawn Mowers, see pages 130 and 131.**

# Rubber Hose, Menders, Nozzles and Lawn Sprinklers

## RUBBER HOSE

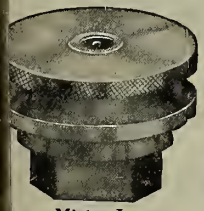
**Electric.** Three-ply, non-kinkable, molded Hose. The strength and durability of this Hose places it with the very best grade of Hose manufactured.
Standard lengths, ¾-inch bore, 25 ft., $5; 50 ft., $10.
Standard lengths, ½-inch bore, 25 ft., $4.50; 50 ft., $9.
Other lengths, ¾-inch bore, cut and coupled, 20 cts. per ft.
Other lengths, ½-inch bore, cut and coupled, 18 cts. per ft.

**S. & W.'s Special Brand (Wayahead).** Surpasses all the cheaper grades of Hose. Its durability is not excelled by much of the higher-priced Hose. It is three-ply, seamless and non-kinkable. The satisfaction it gives is proved in the increased demand for it each season.
Standard lengths, ¾-inch bore, 25 ft., $4.50; 50 ft., $9.
Other lengths, ¾-inch bore, cut, 18 cts. per ft.

**Armored.** This Hose is bound with steel wire, galvanized. Positively non-kinkable. Will stand rough usage; excellent for all kinds of construction work.
Standard lengths, ¾-inch bore, 25 ft., $3.75; 50 ft., $7.50.

**S. & W.'s Wearlong Brand** is a medium-grade Hose. It is excellent for garden and greenhouse work, and gives very good satisfaction.
Standard lengths, ¾-inch bore, 25 ft., $3; 50 ft., $6.
Standard lengths, ½-inch bore, 25 ft., $2.75; 50 ft., $5.50.

## HOSE NOZZLES



Mistry Jr.

**Stott's.** A Nozzle that has become a favorite among rose-growers, etc., for exterminating red spider. Splendid Nozzle for reaching under the foliage; gives a very fine, misty spray. Single, $1.25; double, $1.75.

**Mistry Jr.** Can be used for spraying whitewash. $1 each.

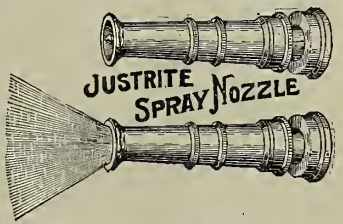
**Boss.** Very effective for use on red spider. $1.

**Magic.** Brass Hose Nozzle, ¾-inch. Has a shut-off, a stream and a rose spray. Without rose, 70 cts.; with rose, $1.

Schubert

**Shubert.** Made for general all-round use. Solid brass. $2.50.

**Justrite Spray.** A very popular adjustable Nozzle. It gives a copious spray or a well-defined full stream. Has a positive shut-off, by turning the barrel of the Nozzle. 40 cts.

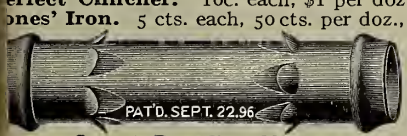



**Bordeaux Spray Nozzle.** A good nozzle for whitewash and all heavy spray materials. 90 cts.

**HOSE COUPLINGS, Lightning.** ¾-inch 35 cts.
**Regular.** ½-inch 20 cts.; ¾-inch 25 cts.

## HOSE MENDERS

**Cooper's Brass.** ½- and ¾-inch 7 cts. each, 75 cts. per doz; 1-inch 8 cts. each, 85 cts. per doz.
**Little Wonder.** 3 cts. each, 30 cts. per doz.
**Perfect Clincher.** 10c. each, $1 per doz., ½-inch or ¾-inch.
**Jones' Iron.** 5 cts. each, 50 cts. per doz., ½in. or ¾in.

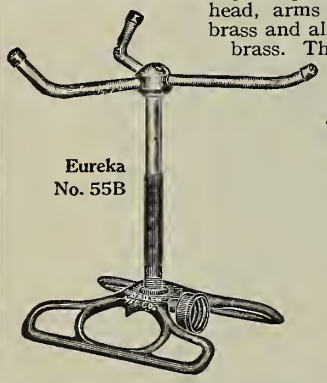



Cooper's Brass Hose Mender

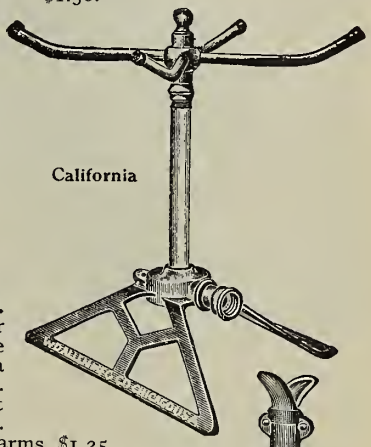
**Hudson.** Practical, simple and perfect. Box of 6 tubes and 20 bands, with pliers, 75 cts. (Give size of hose when ordering.)

## LAWN SPRINKLERS

**Eureka No. 55B Lawn Sprinkler.** The Eureka Sprinkler will revolve under extremely low pressure, and is a first-rate article. The head, arms and upper stem are nickel-plated brass and all bearing parts of the Eureka are of brass. The base is japanned black and has a loose swivel. Height 10 inches. $1.50.



Eureka No. 55B



California

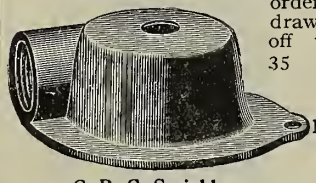
**California Lawn Sprinkler.** Is made with three and four arms. Arms and head are polished brass. Attached to a sled base, 10 inches square. Can readily be drawn about the lawn and will not upset. With 4 arms, $1.50. With 3 arms, $1.25.

**Maid-of-the-Mist Sprinkler.** An effective device for sprinkling lawns, gardens or flower-beds. The water flows with unimpeded force, and is divided and deflected by the two lips of the swivel piece, which it causes to revolve rapidly, scattering the water in fine drops and evenly over a circular area of 25 feet. It works more satisfactorily with a very low pressure of water than any Sprinkler we know of. With spur, 40c. mailed 10c. extra. With sled (recommended) $1.

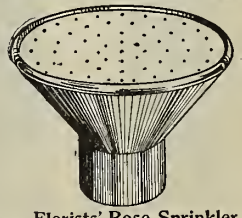
Maid-of-the-Mist

**Ring Lawn Sprinkler.** The Allen Ring Sprinkler is not to be compared with the cheaper Ring Sprinklers. It is made of brass, firmly constructed and guaranteed to stand the water-pressure of any municipal water-works in the United States. 60 cts.

**The C. B. G. (Cheap But Good) Sprinkler.** Is made on the well-known principle of the tangential spray. Nothing to get out of order. Will last a lifetime. It is easily drawn about the lawn without shutting off the water. 35 cts. each, $3.50 per doz.



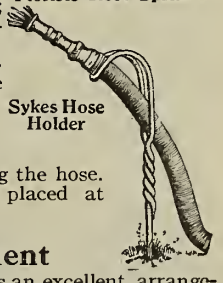
C. B. G. Sprinkler



Florists' Rose Sprinkler

**Florists' Rose Sprinkler.** Used in greenhouses and hotbeds; produces a copious spray, but very gentle, and does not wash or pack the soil. Base is made of cast-brass; face of heavy plate-brass, perforated; ¾-in. thread. 3-inch face, 75c., 4-in. face, $1.

**Boston Rose Sprinkler.** For the same purpose as the Florists' Rose Sprinkler. Made of light sheet-copper. 50 cts.



Sykes Hose Holder

### Sykes Hose Holder

A simple and inexpensive device for holding the hose. With this the nozzle can be placed at almost any angle. 25 cts.

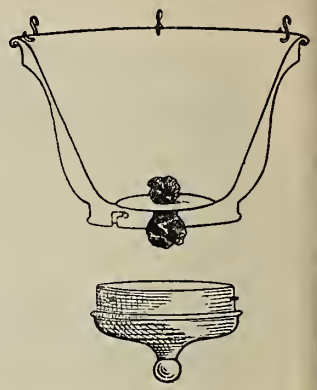
### Siamese Attachment

This brass hose attachment is an excellent arrangement for operating two or more lawn sprinklers at one time. Can be attached to hose and sprinklers very easily. ¾-inch, 60 cts. each; 1-inch, 75 cts. each.

# Hanging-Baskets and Boxes, Thermometers and Plant-Tubs

Self-Watering Hanging-Basket

## Self-Watering Hanging-Baskets



These Hanging-Baskets are made entirely of heavy sheet-zinc, spun into form and without seams; can be used in a library or parlor or any desired place without danger of damaging the most delicate furniture or fabric, as leaking or dripping of water is absolutely impossible.

Filling the water-container is necessary but once a week, and this can be accomplished from the floor without disturbing the basket or use of anything on which to stand.

A strong, solid brass chain is furnished. Additional chain required charged for at 3 cts. per lineal foot.

We also furnish a strong, neat bracket, suitable for hanging-baskets, bird-cages, etc., With screws, 25 cts.

Diameter 9 in., capacity 2 pints ..... $2 50
Diameter 10 in., capacity 2 pints ..... 3 00
Diameter 12 in., capacity 3 pints ..... 4 00

## Illinois Self-Watering Flower-Boxes

Design A

Remarkable for the small amount of attention required to secure the finest growth in all kinds of plants. The reservoir in bottom provides the water as needed; it is only necessary to examine the surface of the soil occasionally and, if dry, refill the reservoir. A liberal supply of air to the roots is constantly maintained through the sponges, the soil will always be found mealy and loose, and the moisture is always evenly distributed from top to bottom of soil. Do not refill reservoir unless the condition of the soil shows that watering is needed.

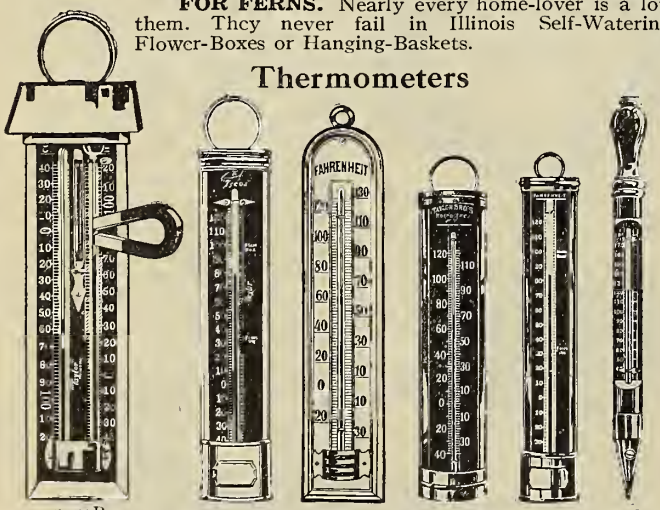
**Price for either Design A or B**

| No. | Height in. | Width in. | Length in. | Capacity qts. | Price |
|---|---|---|---|---|---|
| 1 | 8 | 9½ | 23 | 2½ | $2 30 |
| 2 | 8 | 9½ | 25 | 3 | 2 50 |
| 3 | 8 | 9½ | 27 | 3½ | 2 70 |
| 4 | 8 | 9½ | 29 | 4 | 2 90 |
| 5 | 8 | 9½ | 31 | 4½ | 3 10 |
| 6 | 8 | 9½ | 33 | 5 | $3 30 |
| 7 | 8 | 9½ | 35 | 5½ | 3 50 |
| 8 | 8 | 9½ | 37 | 6 | 3 70 |
| 9 | 8 | 9½ | 39 | 6½ | 3 90 |
| 10 | 8 | 9½ | 41 | 7 | 4 10 |

**FOR BULBS.** Our Self-watering Baskets and Boxes are, without question, the most satisfactory device for growing bulbs ever devised. A beautiful and certain growth, with a minimum of care.

**FOR FERNS.** Nearly every home-lover is a lover of ferns, but few succeed with them. They never fail in Illinois Self-Watering Flower-Boxes or Hanging-Baskets.

## Thermometers



5452P 5400 5232 5154 5420 5981

**No. 5452P, Self-Registering.** (Siexe's Pattern.) Copper case, black brass scale, white figures. **Maximum and Minimum.** 8-inch, $3.50; 10-inch, $4. Magnet with each.

**No. 5400.** Black japanned heavy tin case; brass scale, white figures. (Mercury.) Scale range, 10 to 40 degrees below zero to 120 above. **Standard Grade.** 8-inch, 75 cts.; 10-inch, $1.

**No. 5420.** Black japanned heavy tin case. For greenhouses. Black oxidized brass scale, white figures. (Spirit.) 8-inch, 30 cts.; 10-inch, 45 cts.; 12-inch, 60 cts.

**No. 5154.** Copper case; distance reading. Black oxidized brass scale, white figures. (Spirit.) Scale range, 120 degrees above to 40 degrees below zero. 8-inch, 50 cts.; 10-inch, 75 cts.

**No. 5232.** Wood back, with white porcelain scale. Large black figures and graduations. Can be easily read at a distance. Polished oak. A good spirit Thermometer. 8-inch, $1; 10-inch, $1.25.

**No. 5981. Hotbed.** Wood frame, 16 inches, with point. Brass oxidized scale, white figures and graduations. Best grade, $1.50.

## TUBS

New York Cedar Tub

**Plant-Tubs, New York Cedar.** Made of the very choicest seasoned cedar, highly finished with black hoops; will last twice as long as cypress tubs. Inside measure

| No. | Diam. | Height | Price |
|---|---|---|---|
| 1 | 12 in. | 10½ in. | $1 10 |
| 2 | 13 in. | 13 in. | 1 40 |
| 3 | 14½ in. | 15 in. | 1 70 |
| 3½ | 16½ in. | 15¾ in. | 2 25 |
| 4 | 19½ in. | 17 in. | 2 40 |
| 5 | 22½ in. | 18½ in. | 3 20 |

**Tree-Tubs, Cedar.** Heavy; particularly adapted for large, heavy plants.

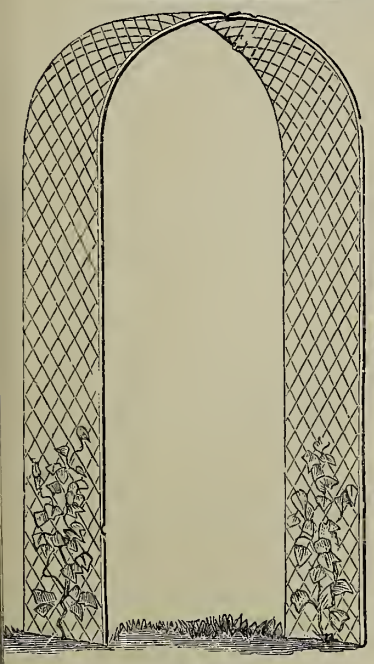
| No. | Outside diam. | Length of staves | Price |
|---|---|---|---|
| 0 | 27 in. | 24 in. | $6 00 |
| 1 | 25 in. | 22 in. | 5 00 |
| 2 | 23 in. | 20 in. | 4 50 |
| 3 | 21 in. | 18 in. | 4 00 |
| 4 | 18 in. | 16 in. | 3 50 |
| 5 | 16 in. | 14 in. | $3 00 |
| 6 | 14 in. | 12 in. | 2 50 |
| 7 | 13 in. | 11 in. | 2 25 |
| 8 | 12 in. | 10 in. | 2 00 |

## Rolling Stands

**Heavy Fiber-Ware, Waterproof.** Stand consists of two pieces o steel, securely riveted to four casters Will support heavy tubs, pots, etc Can be readily rolled about withou injuring the floor. No dampness unde the stand. When ordering give th outside diameter of bottom of tub.

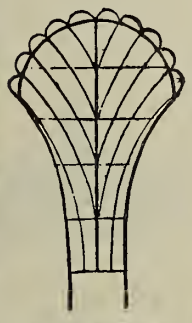
| Outside diam. | Takes tubs of bottom diam. | Each | Doz. |
|---|---|---|---|
| 12 in. | 10 in. | $0 60 | $6 0 |
| 14 in. | 11 in. | 70 | 7 0 |
| 16 in. | 13 in. | 85 | 8 5 |
| 18 in. | 15 in. | 1 00 | 10 5 |
| 20 in. | 17 in. | 1 25 | 12 5 |
| 22 in. | 20 in. | 1 50 | 15 0 |

# Wire Arches, Hanging-Baskets and Rustic Ware



Wire Arch

Vine Trainer



Fan-shaped Trellis

## Wire Arch

Made of extra-heavy galvanized iron. Splendid for vines and rambler roses. 18 inches wide, 7½ feet high, center space between arch 4½ feet, $7.50; 30 inches wide, same height and space between, $10. Arches of larger sizes made to order on request.

## Wire Vine Trainer

Made of heavy galvanized iron. 18 inches wide, made any height up to 12 feet, plain, without border, 45 cts. per lineal foot. Other widths, prices on request.

## Wire Fan-shaped Trellis

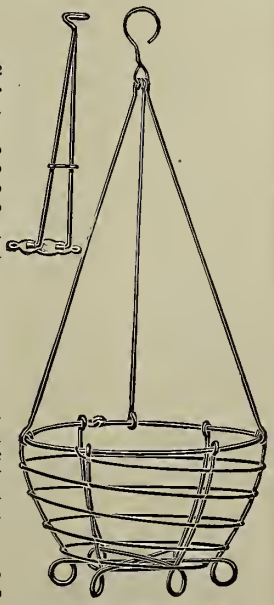
Made of heavy galvanized iron. 24 inches high, $1.25; 36 inches high, $1.75; 48 inches high, $2.25.

## Wire Hanging-Basket

Steel wire, heavily galvanized. Line with moss and fill with house plants requiring little soil. They look very unique.

| Diam. | Each | Doz. |
|---|---|---|
| 8 in. | $0 50 | $5 00 |
| 10 in. | 60 | 6 00 |
| 12 in. | 70 | 7 00 |
| 14 in. | 80 | 8 00 |

Strong, neat, swivel **Brackets** furnished with screws, 25 cts.



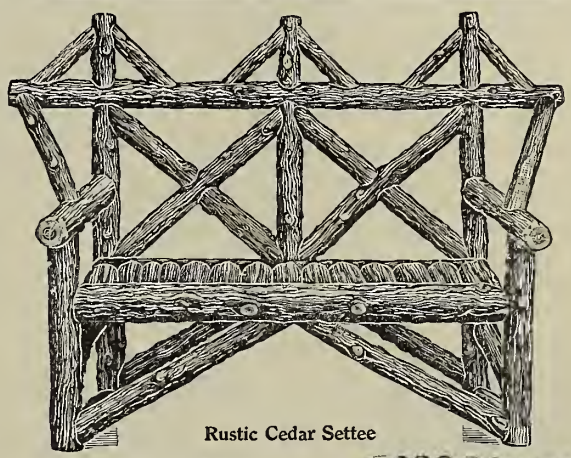
Wire Hanging-Basket

## Rustic Hanging-Basket

Bowl is hexagon-shaped, covered with laurel; fine finish. Are very attractive when filled with ferns and running plants.

| Diam. | Each | Doz. |
|---|---|---|
| 10 in. | $1 75 | $15 00 |
| 12 in. | 2 00 | 20 00 |
| 15 in. | 2 50 | 25 00 |

Rustic Hanging-Basket



Rustic Cedar Settee

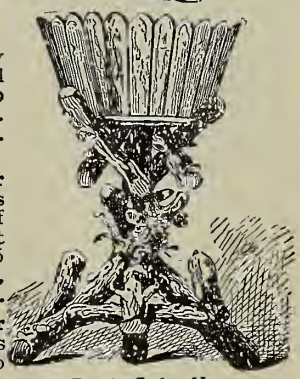
## Rustic Ware

**Rustic Cedar Settee.** Durably made of natural cedar, similar to illustration. 4 ft. $8, 5 ft. $9, 6 ft. $10.

Rustic Cedar Table

**Rustic Cedar Vase.** 12 inches inside diameter of bowl by 3½ feet high, $4.50; 16 inches diameter, 3½ feet high, $5.

**Rustic Cedar Table.** 24 inches in diameter by 30 inches high, $10.



Rustic Cedar Vase

No. 2 No. 6 No. 3

It is only human to induce these jolly little friends to make their homes with us. Many country homes have been made a paradise by protecting and sheltering the merry songsters. The life and joy they bring to us and the lessons they teach are well worth the attention we give them. Besides, they carry away thousands of harmful worms and insects. Provide them with comfortable homes, and protect them from their enemies. **State when ordering what kind of birds you want to encourage.**

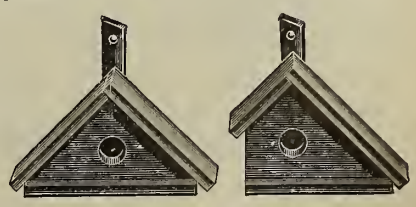
| | Width | Height | Depth | Price |
|---|---|---|---|---|
| No. 1 Log Cabin | 10 in. | 10 in. | 10 in. | $1 50 |
| No. 2 Log Cabin | 10 in. | 12 in. | 14 in. | 2 50 |
| No. 3 Log Cabin | 14 in. | 12 in. | 17 in. | 3 50 |
| No. 4 Log Cabin | 14 in. | 17 in. | 16 in. | 4 00 |
| No. 5 Log Cabin | 14 in. | 18 in. | 19 in. | 5 00 |
| No. 6 Log Cabin | 12 in. | 14 in. | 19 in. | 3 50 |

No. 1 is a one-family cabin; Nos. 2, 3, 4 and 6 are two-family cabins; No. 5 is a four-family cabin.

## Wren-Houses

Made for wrens and small birds only. Several designs, finely finished and painted in different colors. 50 cts. each, $5 per doz.

Plain houses with green tops, for larger birds. Small size, 25 cts.; large size, 50c.



# Miscellaneous Garden Supplies

**Aprons, Gardener's.** English made.

| | Each |
|---|---|
| Fine shalloon, 39-in. with bib and pocket | $2 25 |
| Fine shalloon, 36-in. with bib and pocket | 2 00 |
| Heavy serge, 39-in. with bib and pocket | 1 50 |
| Heavy serge, 36-in. with bib and pocket | 1 25 |

**Bamboo Canes.** See Plant Stakes, page 137.

**Blinds, Split Bamboo.** Tied with hemp string, and with pulleys. For shading greenhouses, or for porches and verandas. 5, 6, 8, 10, and 12 feet wide, all 8 feet long in the drop. Price, $3 per 100 square feet. Intermediate sizes of above made to order. Price on application.

**Brooms, Bamboo.** Excellent for sweeping lawns, putting-greens and walks. Made of bamboo. 50 cts. each, $5 per doz.

**Carnation Supports.** Model Extension, 2-ring, 50 cts. per doz., $3 per 100; 3-ring, 60 cts. per doz., $3.50 per 100.

**Carnation Bands, Rubber.** To prevent splitting of calyx. 50 cts. per oz.

**Clips, Eureka.** For fastening rose and chrysanthemum wire stakes. $1 per box of 500, $1.50 per box of 1,000.

**Corn Knife.** For cutting cornstalks or heavy grass. 35 cts. each, $3.50 per doz.

## Firefly Egg-Tester

**(Patented)**

This is the only practical electric Egg-Tester ever offered to the public. It is the invention of a practical poultry-breeder, and is the result of much thought and experiment. Its construction is such that you only get the light when the egg is in position to be looked at, thus greatly increasing its durability. There are no switches or push-buttons to be used, which gives the operator the free use of both hands. The light produced is much stronger than any lamp Tester. It is simple, durable and easily handled. One charge of batteries will give from 2,500 to 3,000 flashes. Consider the many good features that it possesses over the cheap lamp Testers. Greater power of penetration, showing the condition of the egg at a glance; absolute freedom from any glare in the operator's eyes; no heat generated to injure the egg; no danger of fire or smoke; enough electric energy in one charge of batteries to test a whole season's hatching. Every person using an incubator needs one. **Firefly Egg-Tester, complete, $3.**

New battery, 75 cts. each; new lamp, 30 cts. Weight, 2 lbs.

**Forks, Hay.** Finest-quality steel; oval-shaped tines, solid-steel shank, patent ferrule, long and strapped. 2-tine, 65 cts. each; 3-tine, 75 cts. each; 4-tine, 85 cts. each.

**Manure.** Long or short handle. 4-tine, D handle, best material, $1; 5-tine, D handle, best material, $1.25; 6-tine, D handle, best material, $1.50. Long-handle Manure Forks may be had at same prices.

**Spading.** 4-tine, D handle, best material, $1.10; 5-tine, D handle, best material, $1.35. Long-handle Spading Forks may be had at same prices.

**Fumigators** and **Vaporizers.** See page 142.

**Gardeners' Gloves.** Heavy goat, for protecting hands. $1 per pair.

## Garden and Greenhouse Barrows

| | Each |
|---|---|
| **Regulation, No. 2, Boys'.** Holds 2 cubic feet of earth | $3.25 |
| **Regulation, No. 4, Medium.** Holds 4 cubic feet of earth | 4 00 |
| **Regulation No. 5, Standard Size.** Holds 5 cubic feet of earth | 4 50 |
| **Wood Canal.** Fully bolted; with wooden wheel | 2 25 |
| **Wood Canal.** Fully bolted; with steel wheel | 2 75 |
| **Greenhouse.** Built specially for narrow walks in greenhouse; also excellent for poultry-houses | 4 50 |

## Glazing Materials

**Mastica, for Glazing Greenhouses.** The use of Mastica avoids the necessity of repeatedly re-glazing the houses, saving much time and expense. With Mastica one can bed in or use outside with a machine. $1.50 per gal., $7 for 5 gals.

**Mastica Machine.** $1.25 each.

**Glazing Putty, Twemlow's Old English.** Will not crack or peel. One gallon glazes 300 lineal feet. Qt. 55 cts., gal. $1.75.

**Putty Bulb, Scollay.** A useful tool similar to the well-known Scollay Sprinkler, with a tube instead of spray for applying liquid putty in glazing greenhouses. $1.

**Glazing Points, Van Reyper's.** No rights or lefts. No. 2, Large, for single thick glass. No. 2½, Double thick, for greenhouses and skylights. Box of 1,000, 65 cts.; 5,000 for $3.
Pincers or pliers for same, 50 cts.

**Siebert's Improved Glazing Points.** Easy to drive and made so they will not wedge or crack glass in driving. The head gives a good surface and makes it very easy to drive with a chisel, and the point is very easily pulled out when repairing greenhouse roof.
Two sizes, 5/8- and 7/8-inch long, put up in 1-pound packages. Over 1,400 points in 1-lb. pkg. of 5/8; over 1,100 points in 1-lb. pkg. of 7/8. 40 cts., per lb., 7 lbs. $2.50.

**Clamp, Peerless Repair.** Simple device for repairing broken greenhouse glass. Easily adjusted from inside of houses. Saves labor, coal and glass. If applied as soon as crack is noticed, the pane is just as strong as before and will not sag or drop out. Per box of 100 clamps, $1.

**Diamond Glass Cutter.** With guide-wheel. $3.

**Red Devil Glass Cutter.** 10 cts., 15 cts. and 25 cts.

**Putty Knife.** No. 100. A very good tool. 25 cts. each, 3 for 65 cts.

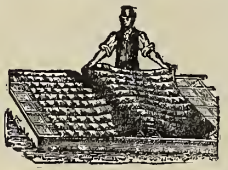
**Grafting Wax.** ¼lb. 10 cts., ½lb. 15 cts., lb. 25 cts.

**Hoes, Bateman Light Grub Hoe.** One of the best Hoes for bog-work and other uses on the farm. 5½-inch, $1; 6½-inch, $1.25; 8-inch, $1.50. See, also, page 127.

**Hotbed Sash.** Well made from clean cypress, glazed and painted two coats of white paint. $3.50 each, $40 per doz.

**Double-Glass Sash.** Two layers of glass with an air-space of 1 inch between. $5 each, $55 per doz.

**Hotbed Mats.** Burlap, for protecting coldframes and hotbeds. Warmly lined with waste wool and cotton, which are quilted in to hold position.



| | Each | Doz. |
|---|---|---|
| No. 1. 40x76 in. Burlap on both sides | $1 20 | $13 00 |
| No. 1. 76x76 in. Burlap on both sides | 1 75 | 19 00 |
| No. 2. 40x76 in. Waterproof Duck and Burlap | 1 30 | 14 00 |
| No. 2. 76x76 in. Waterproof Duck and Burlap | 2 00 | 22 00 |
| No. 3. 40x76 in. Waterproof Duck on both sides | 1 50 | 16 50 |
| No. 3. 76x76 in. Waterproof Duck on both sides | 2 50 | 27 50 |

**Knives, Turf Edging.** For cutting edges of walks, flower-beds, etc. $1.00 each.

**Solid Welded Steel Edging.** Socket handle; made of the very best steel; imported English. 8-inch, $1.25; 9-inch, $1.35.

| | Each |
|---|---|
| **Half-Moon.** Solid steel, with a polished handle | $0 60 |
| Without handle | 45 |
| **Pruning—** | |
| No. 1, horn handle, 1 blade | 1 00 |
| No. 2, " " 1 " | 90 |
| No. 3, " " 2 blades | 1 00 |
| No. 4, ebony " 1 blade | 75 |
| No. 5, " " 1 " | 65 |
| **Budding—** | |
| No. A, ivory handle, Saynor | 1 75 |
| No. B, bone " S. & W. | 90 |
| No. C, ivory " S. & W. | 1 50 |
| No. D, " " | 1 25 |
| No. E, " " 2 blades | 1 50 |
| No. F, ebony " 1 blade | 50 |

## Pot or Garden Labels

| **Wooden** PLAIN | | PAINTED | |
|---|---|---|---|
| | 100 1,000 | 100 1,000 | |
| 4-in. | $0 15 $0 60 | $0 15 $0 90 | |
| 4½-in. | 15 80 | 20 1 00 | |
| 5-in. | 15 90 | 20 1 25 | |
| 6-in. | 20 1 00 | 25 1 35 | |

| **Wooden** PLAIN | | PAINTED | |
|---|---|---|---|
| | 100 1,000 | 100 1,000 | |
| 8-in. | $0 40 $3 50 | $0 50 $4 00 | |
| 10-in. | 45 4 00 | 55 5 00 | |
| 12-in. | 55 4 50 | 60 5 50 | |
| 3½-in., copper-wired | 25 2 00 | | |

**Zinc Garden.** These are unsurpassed, being neat, durable and indelible. The ink marks a jet-black, which remains distinct. Use a clean quill or pointed stick.

| No. | Doz. | 100 |
|---|---|---|
| 1—4¾x3½ | $0 25 | $1 25 |
| 2—4 x2¾ | 20 | 1 10 |
| 3—4 x3 | 20 | 1 10 |
| 4—5 x1 | 20 | 1 10 |
| 5—3½x2½ | 25 | 1 30 |

| No. | Doz. | 100 |
|---|---|---|
| 6—2¼x2 | $0 20 | $1 10 |
| 7—2¾x⅞ | 15 | 75 |
| 13—2¾x1¼ | 15 | 75 |
| 14—1½x1¼ | 15 | 65 |
| 15—4¼x4¾ | 15 | 65 |

**Bateman's Permanent Label Holder.** This Label Holder is finished with an index card covered with mica, making it waterproof. 20 cts. each, $2 per doz.

**Label Pencils.** Permanent writing on wooden labels. 5 cts. each, 50 cts. per doz. X-L-All Indelible, 10 cts. each, $1 per doz.

**Label, Indelible Ink.** For zinc labels. 25 cts. per bottle

**Netting.** Bird netting to protect all small fruits and vegetables. A good quality of cotton netting, 1-inch mesh, only in 20- and 30-ft. widths and of any reasonable length. 85 cts. per 100 square feet.

**Paper—**

**Wax.** 24x36. Ream $3 00
18x24. Ream 2 00
**Tissue.** 24x36. Ream 1 00

**Manila.** 24x36. Ream $2 00
**Wrapping.** 40x48 ..Lb 10

**Plant Sprinkler, Scollay.** Made of best rubber. Straight neck, 95 cts.; Angle-neck, $1.

# Miscellaneous Garden Supplies

**Post-Hole Auger.** In soil free from large stones and roots, this tool works with great satisfaction. It is used as an ordinary auger-bit. 6-in. diameter, $1.25; 8-in. diameter, $1.50.

**Post-Hole Digger, Iwan.** Ease of operation and superior and rapid work are features of this new Digger; more than two hundred holes a day can be dug with it. 6-inch, $2.25; 8-inch, $3.

**Raffia, Natural.** For tying plants. Lb. 25 cts., 5 lbs. $1.10.
**Colored.** All colors. For basket-making. Lb. 50 cts.

**Scythe Stones, Genuine English.** Round, tapering. 25 cts. each, $2.50 per doz.
**Red-End.** 10 cts. each, 90 cts. per doz.
**Hypolite.** Whetstone; imported. 10 cts. each, $1 per doz.

**Scythe Rifles, Emery-coated.** 15 cts. each, $1.50 per doz.

**Scissors, Grape-Thinning.** 75 cts.; **Flower-Gathering,** 75 cts.

**Shears, Pruning, S. & W. Co.'s Solid Steel.** Made for long service; easily adjusted. 7½ in. $1.25; 8½ in. $1.50; 9½ in., $1.75.
**Pruning, California.** 50 cts.
**Pruning, French.** 5½ in. $1.25, 6½ in. $1.35, 8 in. $1.45, 9 in. $1.75.
**Pruning, Kunde.** Made of best steel, double cut, splendid finish, very durable. $3.
**Pruning, Wiss.** A very satisfactory Shears, tempered to cut continuously without dulling; has detachable blade. 9 in. $2, 10 in. $2.50.
**Pruning, Lady's Nickel-plated.** 5½-in. 90 cts., 6½ in. $1.
**Pruning, S. & W. Co.'s Special.** Steel blades, malleable handles. 50 cts.

**Branch,** or **Lopping.** See page 138.

**Grass.** Full nickel, solid steel. 6-in. blade 75 cts., 7-in. blade $1.
**Grass, Imported English.** Best procurable. 6½-in., bent, $1.25.

**Border and Grass Edging.** 10-in. blades $2.50; with wheel $2.75.

**Lawn.** 10-in. blades, with two wheels, $2.75.

**Hedge.** Imported English, plain blade. 8-in. $1.25, 9-in. $1.50, 10-in. $2; 8-in. notched, $1.50; 9-in. notched, $1.75; 10-in. notched, $2.25.

**Screens.** Handy for ashes, coal, sands, gravel, etc. Extra-heavy wire; spruce frames. Small size, 25x62 inches, $6; large size, 28x66 inches, $7. State whether ¼-, ½-, ¾- or 1-inch mesh is desired.

**Silkaline.** See **Twines.**

**Shovels, Ames' Long and D Handles.** Long-strapped, round or sq. $1.50.
**Sickles' Pointed and Square.** $1.

**Spades, Ames' Long and D-Handles.** $1.50.
**S. & W. Co.'s Special Long and D-Handles.** $1.
**English Turfing.** For cutting and lifting sod. $5.
**American Turfing.** $1.25

## Plant Stakes and Supports

**Plant, Tapering, Green.—**

| | Doz. | 100 |
|---|---|---|
| 1½ feet | $0 20 | $1 25 |
| 2 feet | 30 | 1 75 |
| 2½ feet | 40 | 2 60 |
| 3 feet | $0 50 | $3 40 |
| 3½ feet | 60 | 4 25 |
| 4 feet | 70 | 5 25 |
| 5 feet | 80 | 6 00 |

**Carnation Supports.** See page 136.

**Chinese Cane.** These are genuine Chinese canes, very strong and heavy.

| | 100 | 1,000 |
|---|---|---|
| 4 feet, heavy | $1 75 | $15 00 |
| 5 feet, heavy | 2 00 | 16 00 |
| 6 feet, heavy | $2 25 | $20 00 |
| 7 feet, heavy | 2 75 | 25 00 |

**Green Bamboo Canes, Light.** Excellent for tying up peonies and gladioli.

| | 100 | 1,000 |
|---|---|---|
| 2 feet | $0 50 | $4 00 |
| 2½ feet | 75 | 6 00 |
| 3 feet | 90 | 7 00 |
| 3½ feet | $1 00 | $8 00 |
| 4 feet | 1 20 | 9 00 |
| 5 feet | 1 40 | 12 00 |

**Japanese Cane.** For staking plants and trees.

| | 100 | 1,000 |
|---|---|---|
| 6 feet | $1 00 | $8 00 |
| 8 feet | 1 50 | 12 00 |
| 10 feet | 3 00 | 25 00 |
| 12 feet | 5 00 | 45 00 |
| 14 feet | $7 00 | $65 00 |
| 16 feet | 10 00 | 90 00 |
| 18 feet | 12 50 | 110 00 |
| 20 feet | 15 00 | 140 00 |

**Dahlia Poles—**

| | Doz. | 100 |
|---|---|---|
| 3 feet | $0 75 | $6 00 |
| 3½ feet | 90 | 7 00 |
| 4 feet | $1 00 | $8 00 |
| 5 feet | 1 30 | 10 00 |
| 6 feet | 1 40 | 11 00 |

**Galvanized Wire—**

| | 100 | 1,000 |
|---|---|---|
| 3 feet | $1 75 | $12 50 |
| 3½ feet | 2 00 | 14 50 |
| 4 feet | 2 25 | 16 00 |
| 4½ feet | $2 50 | $18 00 |
| 5 feet | 2 75 | 20 00 |
| 6 feet | 3 25 | 25 00 |

**Tomato Supports, Wire.** 32 inches high, 14 inches in diameter, made of heavy steel wire. 15 cts. each, $1.50 per doz., $12 per 100.
**Perfection Patent Wood.** 36 inches high and 16 inches wide. Can be taken apart and stored. 25 cts. each, $2.50 per doz.

## Twines

**S. & W. Co.'s Smilax Thread.** This Thread is very strong, green in color and warranted not to fade. Best Thread on the market. 10 cts. per spool, 85 cts. per lb., $2.50 per box of 3 lbs.

**TWINES, continued**

**Silkaline.** Very largely used for tying. Three sizes, F, FF, and FFF. 25 cts. per spool, $1.50 per box of 8 spools.
**Bouquet Twine.** White, in 3-oz. balls. 35 cts. per lb., $1.50 for 5 lbs.
**Sea Island Cotton.** Green, 2-oz. balls, 10 cts. per ball, 75 cts. per lb.
**Twine, Soft.** For tying vines, etc.; very strong. 3- and 5-ply. Large balls, 20 cts.
**Tarred Yarn.** Excellent, low-priced material for raspberries, shrubs, etc. Lb. 15 cts.
**Tarred Marline.** Of better quality than the above; twisted in strands. In 5-lb. balls. Lb. 18 cts.

**Watering Pots, Haw's Pattern—**

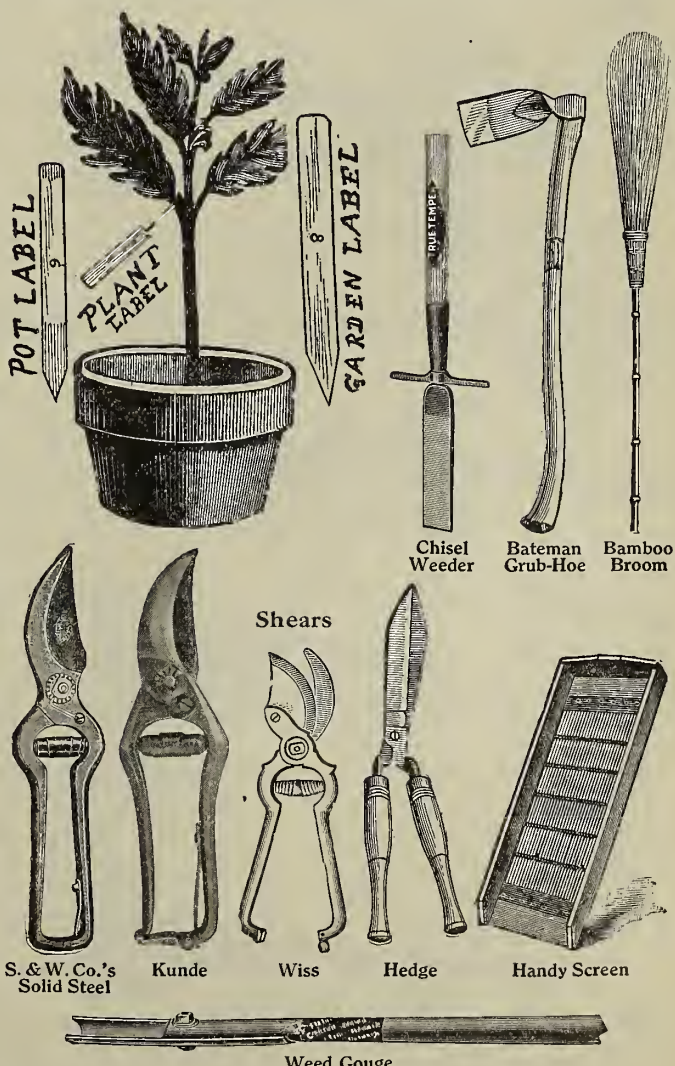
| | |
|---|---|
| No. 0. 3 qts.; shelf; 9-in. spout, one pot rose and extra joint | $2 00 |
| No. 2. 4 qts.; japanned; 2 roses | 3 00 |
| No. 3. 6 qts.; japanned; 2 roses | 3 50 |
| No. 4. 8 qts.; japanned; 2 roses | 4 00 |
| No. 5. 10 qts.; japanned; 1 rose and spreader | 4 50 |

**Plain.** Heavy galvanized; round and oval; each pot has two roses —one fine and one coarse.

| | | | |
|---|---|---|---|
| 6-quart, round | $2 00 | 6-quart, oval | $2 25 |
| 8-quart, round | 2 25 | 8-quart, oval | 2 50 |
| 10-quart, round | 2 50 | 10-quart, oval | 3 00 |
| 12-quart, round | 2 75 | 12-quart, oval | 3 50 |

**Weeders. Reversible Weed Gouge.** 35 cts.
**Chisel-Blade Weed Cutter.** Long handle, with foot-rest. 60 cts.

**Wire, Bouquet, Florists' Annealed.** Nos. 22, 23 and 24. In coils of 12 lbs., $1.50 per coil.
**Florists' Bright.** Cut in lengths. In boxes of 12 lbs. (one stone). 12 in. and 18 in. long. No. 22, $1.50; No. 24, $1.75.
**Florists' Wire, Ajax.** Furnished on spools. No. 16, 18, 20, 22, 24, 26. 10 cts. per spool.



# Pruning Tools and Orchard Supplies

Compound-Lever Pruner

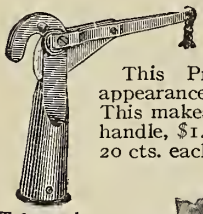
## Compound-Lever Pruner

Working parts, being made from forgings, are very strong, without being unnecessarily heavy, and the strength, durability, easy cutting qualities of this tool appeal to all who have occasion to use a strong and powerful Pruner. 10 ft., $3; 12 ft. $3.10; 14-ft. $3.20; 16 ft. $3.30.

## Waters Tree Pruner

This Pruner has been before the public for over twenty-five years. It has numerous well-known advantages, and if a tool for ordinary pruning is required, the Waters will give entire satisfaction.

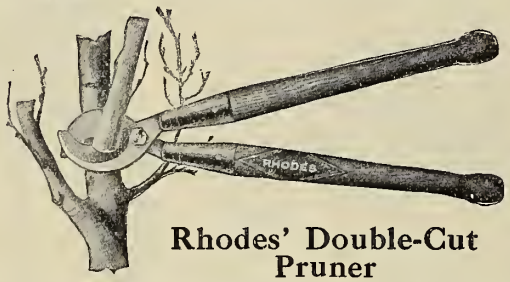
| | | | |
|---|---|---|---|
| 4 ft. | $0 80 | 10 ft. | $1 10 |
| 6 ft. | 90 | 12 ft. | 1 20 |
| 8 ft. | 1 00 | Extra Knives.. | 20 |



Telegraph Pole Pruner

## Telegraph Pole Pruner

This Pruner is similar in appearance but of heavier construction than the Waters. This makes it very strong and durable. Plain, $1; with handle, $1.50. Extra knives, 20 cts. each; Extra springs, 20 cts. each.




## Rhodes' Double-Cut Pruner

The most powerful Pruner made. Cuts from both sides of the limb, and does not bruise the bark. Long ferrules; handles do not pull out; blades are of the best forged steel. 30-inch, $2.35; 36-inch, $2.50.

## PRUNING SAWS

Paragon Pruning Saw

**Paragon Pruning Saw.** A very good double-edge Pruning Saw, with the draw cutting and thrust cutting edges. Will cut large limbs better than the lighter Saws. 18-inch, 90 cts.; 20-inch, $1.

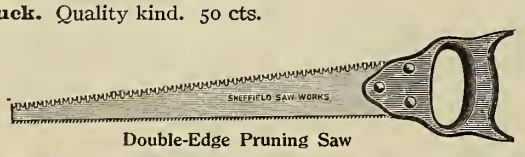
No. 4 Pruning Saw

**No. 4 Pruning Saw.** Without this Saw no pruning outfit is complete. The tapering blade permits of its use in close places. Used for other purposes. A very useful Saw. 26-inch, $1.10.

**Two-Man Crosscut Saw.** Has Tuttle (Lightning) teeth; cuts easily and rapidly; thin back, will not bind. 5-ft., $3; 5½-ft., $3.25; 6 ft., $3.50.

**Buck Saw.** Quality kind. $1.

**Saw-Buck.** Quality kind. 50 cts.




Double-Edge Pruning Saw

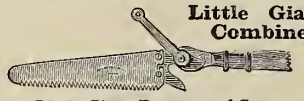
**Double-Edge Pruning Saw.** Has fine teeth on one edge and "Lightning" teeth on the other. 18-in., 80 cts.; 20-in., 90 cts.; 22-in., $1.

### PRUNING SAWS, continued

**One-Man Crosscut Saw.** Can be used also as a Two-man Saw. Has "Lightning" teeth; cuts easily and rapidly.

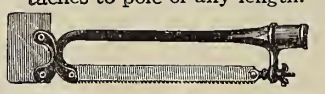
| | | | |
|---|---|---|---|
| 3½-ft. | $2 25 | 4½-ft. | $2 75 |
| 4-ft. | 2 50 | 5-ft. | 3 00 |

**Orchard Pruning Hook and Saw.** Better adapted for pruning or sawing smaller branches than the Little Giant. Without pole, $1.50.



Little Giant Pruner and Saw

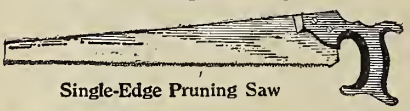
**Little Giant Pruner and Saw Combined.** The knife operates with a cord; a spring throws the knife back. Saw can be removed when desired; attaches to pole of any length. Without pole, $1.75.



Combined Pruning Saw and Chisel

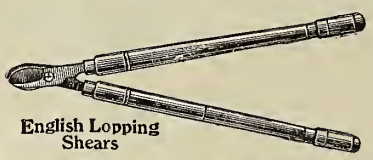
**Combined Pruning Saw and Chisel.** A handy tool; attaches to pole of any length. With a thrust the chisel cuts off small branches. The saw is for larger limbs. Without pole, $1.25.

Orchard Pruning Hook and Saw



Single-Edge Pruning Saw

**Single-Edge Pruning Saw.** Best spring-steel. 18 in., 75 cts.; 20 in., 85 cts.; 22 in., 95 cts.



English Lopping Shears

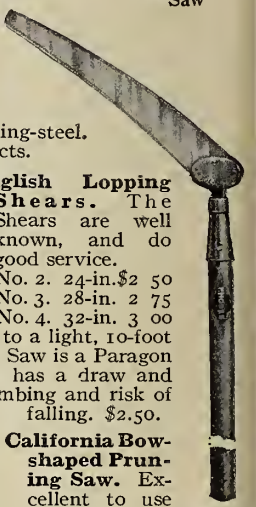
**English Lopping Shears.** The Shears are well known, and do good service.

No. 2. 24-in. $2 50
No. 3. 28-in. 2 75
No. 4. 32-in. 3 00

**Rhodes' Pole Pruning Saw.** Attached to a light, 10-foot pole. Is adjustable to any angle. The Saw is a Paragon blade, made of the best spring-steel; has a draw and thrust cutting edge; saves a lot of climbing and risk of falling. $2.50.

California Bow-shaped Pruning Saw

**California Bow-shaped Pruning Saw.** Excellent to use wherever two limbs are close together. Can be used in the forks without bruising the bark of other limbs. 12-in., 70 cts.; 14-in. 80c.

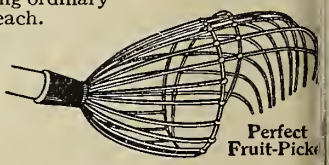


Rhodes' Pole Pruning Saw

**Swivel Pruning Saw.** Very handy to use where the limbs are close together. The blade is adjustable to cut from any angle; it saves the trouble so often found when using ordinary Saws. $1.50. Extra blades, 40c. each.

## Perfect Fruit-Picker

Made of steel wire, heavily galvanized; can be attached to any pole. 35 cts.



Perfect Fruit-Picker

## Asbestos Torch

Attach the Torch to the end of a pole; saturate with kerosene oil, light and hold under the caterpillars' nests, and pass quickly along the branches and around the trunk of the tree. The heat instantly destroys the insects and will in no way injure the tree. Without pole, 30 cts.

Asbestos Torch

## Challenge Step-Ladder

Strongest and best Ladder manufactured. Made of ash; fine finish. Each step is braced and bolted. Only safe ladder to use 10 feet or over. Each

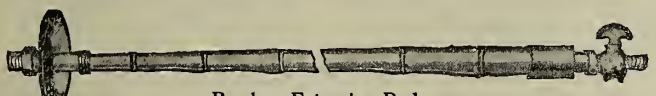
| | |
|---|---|
| 5 ft. | $2 50 |
| 6 ft. | 3 00 |
| 7 ft. | 4 00 |
| 8 ft. | 5 00 |
| 10 ft. | 6 00 |
| 12 ft. | 7 50 |
| 14 ft. | 10 50 |

# Sprayers for Applying Insecticides and Fungicides

## AUTO-SPRAY

Convenient, durable, efficient. Our patented leader of spray apparatus for small uses. Will do better work and do it easier than any other similar article. Useful with bordeaux and all solutions, also in applying cold-water paint or whitewash. Holds four gallons. Illustration shows our new "Auto-Pop" attachment which doubles the efficiency by saving half the solution and labor. Our "Anti-Choke" Nozzle, cleaned at every operation of "Auto-Pop," can never clog. Tank made of galvanized steel or brass. High-grade hose. Heavy self-contained pump, all brass. Nipple connections, nozzle, etc., turned from solid brass rod with full threads. Castings for handle, etc., all malleable. No continuous pumping as in the cases of the Knapsack Sprayer, no continuous pumping or slopping as in the case of the bucket pump. A few strokes of plunger compresses enough air to cover a quarter acre of potatoes or similar crop. The operator simply holds the nozzle. Also used for spraying disinfectants. A practical machine for potatoes, tobacco, small fruits, vineyards, poultry-houses, greenhouses, etc. Extension pipes useful for spraying tall trees. Detailed descriptive circular on request.

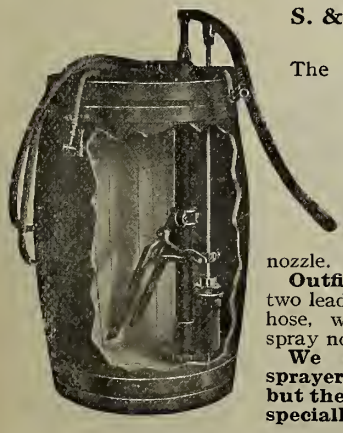
| | |
|---|---|
| Auto-Spray No. 1, Brass Tank, with "Auto-Pop." | $7 25 |
| Auto-Spray No. 2, Galvanized Tank, with "Auto-Pop" | 5 00 |
| Two-Row Attachment for spraying two rows at one passing | 1 35 |
| 2-foot Brass Extension | 45 |
| Brass Elbows for spraying under vines | 30 |
| Torch | 90 |
| Brass Strainer for straining solution | 90 |



Bamboo Extension Rod

### SPRAY POLES FOR TALL-TREE SPRAYING

**Bamboo Poles,** 10 ft. $3, 12 ft. $3.50.
**Galvanized Iron Extension Rod,** 8 ft. $1.50.



### S. & W. CO.'S "FRUITALL" SPRAY PUMP

The "Fruitall" illustrated herewith has been designed especially to meet the demand for a low-priced sprayer combining the necessary durability, efficiency and strength.

**Outfit C.** Sprayer with agitator and one lead of 15 feet ½-inch discharge hose, with "Mistry" or "Mistry Jr." spray nozzle. Price, without barrel, $13.50.

**Outfit D.** Sprayer with agitator and two leads, 15 feet each, ½-inch discharge hose, with "Mistry" or "Mistry" Jr. spray nozzle. Price, without barrel, $16.

**We supply barrel, and mount sprayer on it, for $3.50, extra list; but the barrel is not furnished unless specially ordered.**

## POMONA SPRAY PUMPS

**The Best Barrel Spray Pump on the Market**

It is of large capacity and powerful, with long adjustable leverage, so that it is easily operated by one person, when necessary, but is especially built for spraying from two leads of hose. The unusually large steel air-chamber gives sufficient pressure for a continuous and regular spray. All working parts are of brass, including plunger and valves, which are easily accessible; it has a paddle agitator. The bulk of the pump goes within the barrel, it is not top-heavy, and does not catch low branches.

**Pomona Outfit A.** Sprayer with agitator and one lead of 15 feet of ½-inch spray hose, with Mistry Jr. Spray Nozzle.
With barrel ..... $21 00

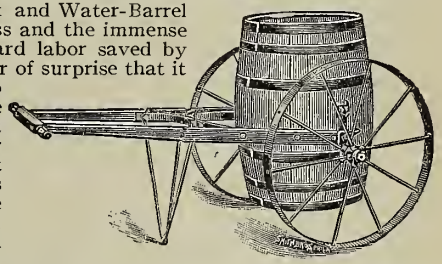
**Pomona Outfit B.** Same as the above, except with two leads of hose and two nozzles. (See cut.)
With barrel ..... $23 00

Extra trunnions for barrel, 50 cts. per set.
S. & W.'s Truck is recommended to save time and labor.

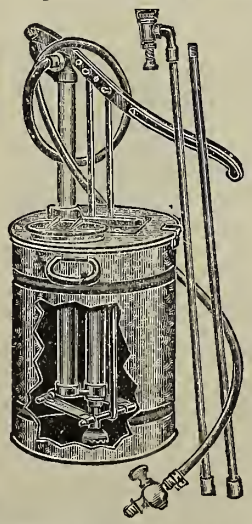
### RUBBER SPRAY HOSE

High pressure, ¾-inch bore, seven-ply Hose is best. 18 cts. per foot. Low pressure, ½-inch bore, five-ply, 12 cts. per foot. Couplings and clamps, 25 cts. extra.

### S. & W. CO.'S TRUCK, LEAF-RACK AND WATER-BARREL COMBINATION



When we consider the almost innumerable uses to which our combined Truck, Leaf-Rack and Water-Barrel can be put, its handiness and the immense amount of time and hard labor saved by its use, it is not a matter of surprise that it is steadily growing into popular favor. It is one of those articles that cause the user to wonder how he ever did without it, as it really becomes indispensable when once used. Prices: Truck and barrel, as in cut, with 2½-in. tire wheels, $12; with handy cart box, length 37x23½ in. wide by 8 in. deep, $3 extra; with leaf-rack, 42 in. long by 28 in. wide by 21 in. deep, $5 extra; complete with truck, water-barrel, box and leaf-rack, $19.



### AUTO-SPRAY WHITEWASH AND PAINT MACHINE

This is warranted the most powerful and most durable machine in its class.

**Tank.** Extra-heavy galvanized steel; holds eight gallons, and has reinforced cover.

**Pump.** All brass but handle-fittings; cylinders extra heavy, 1½ inches in diameter, both air and pump; ball valves and three-ply hose.

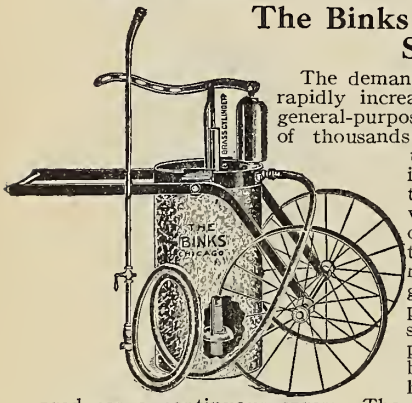
**Weight.** Net, 20 pounds; shipping, 35 pounds.

**Uses.** Suitable for spraying insecticides and fungicides on trees, shrubs and vines, as well as the application of whitewash or cold-water paints, and will do the work of five men with brushes.

Complete, with 8 feet of hose, 8-foot iron extension and one Vermorel nozzle suitable to all classes of spraying. Price, $12.

# Sprayers for Applying Insecticides and Fungicides

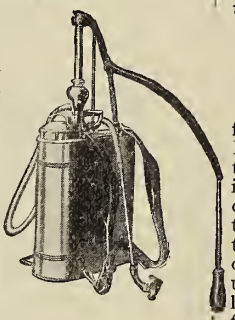
## The Binks General-Purpose Sprayer




The demand for this portable Sprayer is rapidly increasing. The efficiency of this general-purpose Sprayer is finding the favor of thousands of florists and poultrymen throughout the country. This is a well-made machine. The tank consists of heavy galvanized steel, with a capacity of twelve gallons. This narrow-tread Sprayer meets all the requirements demanded in greenhouses and on poultry plants. The pump is of ample size; the pump and all working parts are brass; it has bronze ball valves; is double-acting; has a large air-chamber and produces a continuous spray. The machine is equipped with a dasher agitator which, by each operation of the pump-handle, cleans the suction strainer of any sediment collecting thereon and prevents all clogging. Whitewash, cold-water paint and all liquid insecticides are applied successfully with this Sprayer. A good nozzle, 10 feet of ½-inch good-quality hose, with a 3-foot spray rod and shut-off are furnished. $15. Weight, net, 45 lbs.; shipping weight, 65 lbs.

## The "Success" Knapsack Sprayer

**A KNAPSACK SPRAYER AND BUCKET SPRAYER COMBINED**

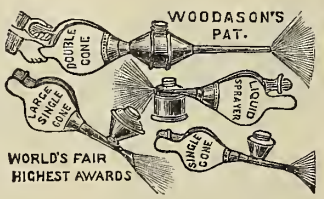


This combined Knapsack and Bucket Sprayer is superior and has many advantages over the cheaper hand Sprayer. It will apply successfully whitewash and all insecticides and fungicides, provided the materials pass through the strainer. In the top of each tank a copper strainer is provided for this purpose. The tank and pump are made entirely of brass and will not corrode. The pump has bronze ball valves, is double-acting and has a plunger agitator; the lever can be readily shifted, to allow pumping or spraying with either the right or left hand. To use it as a Bucket Pump, remove the lever and attach the extra handle provided with each Sprayer. On the top of tank a drip-cup receives any leakage from the plunger and returns it to the tank, thus preventing the operator's back being wet from any leakage. The operator can spray from five to six acres of potatoes and similar crops in a day. A bordeaux nozzle is provided, which produces a fine, medium or coarse spray, also a stream. Excellent as a fire extinguisher, $14. Net weight, 16 lbs.; shipping weight, 40 lbs.

## Bellows, Woodason's

Powder, small size.....$1 25
" large size..... 2 25
Liquid, small size..... 1 50
" large size..... 2 25

**Double-Cone Powder Bellows.** For dusting plants with dry powders for insects and fungus. $3.25.




## Syringes

No. 10. Barrel 18 in. long, one coarse and one fine spray rose and one stream jet, with patent valve and elbow joint. $6.

No. 11. Similar to No. 10, without patent valve. $4.75.

No. G. Barrel 16 in. long; diameter 1½ in., open rose, one spray rose and jet, one side attachment; with angle joint. $4.50.

No. 2. Barrel 13½ in. long; one coarse and one fine spray and one stream rose; solid brass. $4.50.

No. A. Barrel 12 in. long; one spray and one stream rose. $2.50.

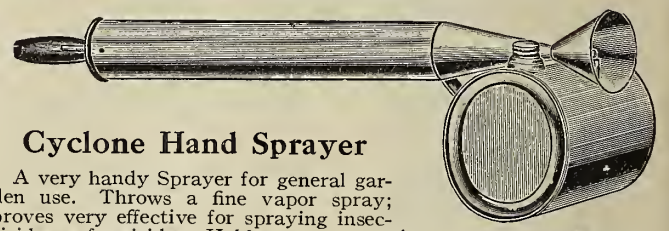
No. H. Barrel 16 in. long, 1½ in. diameter, with fixed spray rose. Sheet-brass. $2.75.

## S. & W. Bucket Spray Pump

The S. & W. Spray Pump is a saving in the cost of small hand Sprayers. It is a quality Sprayer. This Pump is made of heavy seamless brass tubing, with a large brass air-chamber; it has brass ball valves; is double-acting and will produce a continuous spray or stream. A bordeaux nozzle, with 3 feet of ½-inch spray hose is furnished. The nozzle can be regulated to throw a very fine, medium or coarse spray. We recommend this Sprayer as the best cheap hand sprayer for applying whitewash, cold-water paint and disinfectants. When ordering Sprayer to be sent by parcel post, allow for 10 lbs., the packed weight of Sprayer. $3.75.

Extra ½-inch hose, five-ply, of good quality, is furnished at 12 cts. per foot.

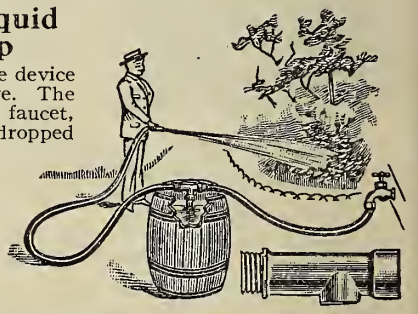
Extra couplings, 25 cts. per set.



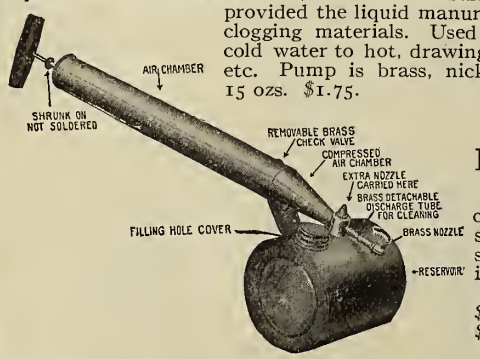
## Cyclone Hand Sprayer

A very handy Sprayer for general garden use. Throws a fine vapor spray; proves very effective for spraying insecticides or fungicides. Holds one quart. Tin, 50 cts.; brass, $1.

## The Kinney Liquid Manure Pump



A small but very valuable device for applying liquid manure. The Pump is attached to the faucet, the end of the suction hose dropped into the barrel or tank of clear liquid manure. To the outlet of Pump, attach the ¾-inch discharge hose, open the faucet, and take up the end of the discharge hose. Capacity, five to fifteen gallons per minute. A thing to be remembered —the water pressure does the pumping and dilutes the liquid manure approximately one-half. An even flow continues as long as the liquid manure remains solvent, and until the barrel or tank is empty, provided the liquid manure contains no coarse clogging materials. Used also for tempering cold water to hot, drawing water out of pits, etc. Pump is brass, nickel-plated. Weight, 15 ozs. $1.75.



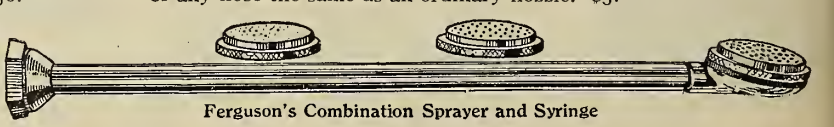

## Continuous Hand Sprayer

Throws a fine, continuous vapor spray. Extra cap is supplied for spraying under foliage.

Price: All Brass, $1.50; Galvanized, $1.25.

## Ferguson's Combination Sprayer and Syringe

Three roses—fine, medium and coarse. Recommended for syringing under the foliage of plants where force is needed to keep down red spider, etc. Substantially made of brass and can be screwed on the end of any hose the same as an ordinary nozzle. $3.



Ferguson's Combination Sprayer and Syringe

# REMEDIES FOR INSECTS AND FUNGUS

**Aphine.** Effective against all soft-bodied and plant-sucking insects, such as green, black and white fly, red spider, thrips, mealy bug, brown and white scale. Used as a spray when diluted with water in the proportions as directed on each can. Endorsed by professional gardeners and commercial growers of reputation. An insecticide which can be used indoors and in the garden. An excellent cleanser for house plants. Gal. $2.50, qt. $1, pt. 65 cts., ½pt. 40 cts., ¼pt. 25 cts.

By special arrangements with the manufacturers, we can send the following sizes express prepaid: Qt. $1.25, pt. 75 cts., ½pt. 50c.

**Aphis Punk.** Used for fumigating in greenhouses, giving off dense fumes of nicotine. Box, 12 rolls, by mail, 75 cts.

**Arsenate of Lead.** For all leaf-eating insects. Guaranteed not to injure the foliage. Three pounds will do the work of four pounds of other brands, and will not readily wash off. Guaranteed to contain an average of 20 per cent arsenic. Lb. 25 cts., 2 lbs. 40 cts., 5 lbs. 90 cts., 10 lbs. $1.75, 25 lbs. $4, 50 lbs. $7.50, 100 lbs. $14.

**Quick Bordeaux.** Is entirely different from all ordinary prepared fungicides, due to the unique manner in which the chemicals are placed in the bags, whereby they keep fresh and strong as long as kept dry. Directions for use: Instruct the least-experienced man about the place to hang one bag of Quick Bordeaux in a 50-gallon barrel of water and squeeze it until the contents are dissolved. One man and one barrel only are required. Will stick to foliage. Lb. can, 25 cts., makes 5 gallons spray; 5-lb. bag $1, 10-lb. bag $1.50, 50 lbs. $6.50, 100 lbs. $12.

**Bordeaux Mixture.** One part dilutes with twenty-five parts of water. Qt. 40 cts., gal. $1, 5 gals. $4.50.

**Borowax.** The fruit-grower's friend. A complete protection against borers if properly applied to peach, plum, apple, pear and quince trees. Qt. 35 cts., ½gal. 60 cts., gal. can $1, 6 gals. $5, ½bbl. $20, bbl. $35.

**Bug Death.** Largely used instead of paris green. It is claimed to have the same effect. The manufacturers say that it acts as a fertilizer as well as an insecticide. It comes in powder form, and is applied pure. Not poisonous to persons. Lb. 15 cts., 3 lbs. 35 cts., 5 lbs. 50 cts., 12½ lbs. $1, 100 lbs. $7.50.

We recommend the **Dickey Bug Death Duster** for use in applying Bug Death, dry, to small flower- or vegetable-gardens. It is a mighty handy thing to have around the house. 25 cts.

For farm use the **Acre-an-Hour Sifter** is ideal for applying Bug Death dry. It is the very latest, a remarkably effective and distinctly economical method. Easy to operate and gives quick covering to all plants and vines requiring a top application. The price for this especially useful farm utensil is 75 cts.

**"Cattle Comfort."** Protects horses, cattle, dogs, etc., from flies, gnats, mosquitos, horse-flies and other insects; is healing to sores, destroys head-lice on fowls, etc. Qt. 45 cts.

**Copper Solution Ammoniated.** A fungicide the same as bordeaux mixture, the essential ingredient, carbonate of copper, being dissolved in ammonia in this while in bordeaux it is counteracted by lime. Bordeaux is the cheaper and most popular for all ordinary purposes, but for late sprayings, when fruits are nearing maturity, or plants in bloom, copper solutions are usually used. Qt. 75 cts., gal. $1.75.

## STERLINGWORTH CUT WORM KILLER

Our Cut Worm Killer is a coarse powder for sprinkling near the plants to be protected. It has an enticing odor, and the worms prefer it to vegetation. Chickens and birds will not be poisoned if they eat the worms killed by it. Don't use poisonous cut-worm killers—they kill the birds that eat the dying worms. One-pound sprinkler box 25 cts.; 5-lb. tin, containing sprinkler box, $1; 25-lb. drum, containing sprinkler box, $4.

**Fir-Tree-Oil Soap.** A formula of fir-tree oil, prepared in soap form and preferred by some. It will do all claimed for the fluid preparation. ½lb. tin 25c., 2 lbs. 75c., 10 lbs. $3.50.

**Fungine.** An infallible remedy for mildew, rust, wilt, bench-rot, and other blights affecting flowers, fruits and vegetables. Highly endorsed by leading growers. It is equally effective under glass and out-of-doors. A spraying material which is diluted with water, and does not stain the foliage. Gal. $2, qt. 75 cts., pt. 50 cts., ½pt. 35 cts.

By special arrangements with the manufacturers, we can send the following sizes, express prepaid: Qt. $1.15, pt. 75c., ½pt. 50c.

**Grape Dust.** For mold, mildew, or rust-mites, either in the greenhouses or open air. 5 lbs. 40 cts., 10 lbs. 70 cts., 25 lbs. $1.50.

**Hellebore, Powdered.** Good for exterminating currant worms. ½lb. 15 cts., lb. 25 cts., 5 lbs. $1.

**Herbicide.** See Weed-Killers, page 142.

**Kerosene Emulsion.** Diluted in water, this makes an excellent spray for mild forms of scale, and soft lice of any kind, such as infest rose and fruit bushes, vegetables and trees. Liquid diluted one part to twenty parts of water. Liquid. Qt. 30 cts., gal. 85 cts., 5 gals. $3.50.

## STERLINGWORTH LAWN COMPOUND

**KILLS WEEDS IN LAWNS WITHOUT KILLING GRASS, MAKES THE LAWNS GREEN AND VELVETY**

Sterlingworth Lawn Compound is a non-poisonous dry powder for sowing on the lawn, and adheres to the broad, flat leaves of such weeds as plantain, dandelion, chickweed and most other weeds having a broad, hairy surface. It does not stick to the grass on account of its upright position and smooth surface. The ingredients, in combination with the sun's rays, burn out the weeds. One pound will dress 100 to 200 square feet, depending on the lawn's condition. 5-lb. can 60 cts., 10-lb. can $1, 50-lb. keg $4, 100-lb. keg $7.50.

**Lemon Oil.** Odorless and poisonless; one to thirty to fifty parts of water. Destroys mealy bug, scale, thrips, red spider, black and green fly, caterpillar, etc. ½pt. 25 cts., pt. 40 cts., qt. 75 cts., ½gal. $1.25, gal. $2.

**Lime-Sulphur, Bowker's Concentrated.** One gallon makes ten gallons of spray; dilute with cold water. Bowker's Lime-Sulphur is manufactured under the direct personal supervision of skilled graduate chemists who have devoted years to manufacturing spraying materials, with the one dominant idea that any spray to be worth branding "Bowker's" must be absolutely the best of its kind. Bowker's is "Lime-Sulphur with the guess-work left out."

We sell and recommend Bowker's Lime-Sulphur because we have full confidence in it, and it has given our customers excellent satisfaction. 1-gal. can, 65 cts.; 5-gal. can, $2; 10-gal. can, $3.50. In barrels at 18 cts. per gal.

**Nicoticide.** Used as a spray or as a vapor, principally in the latter way. We have a special lamp which has a tin saucer above it in which is placed the material (quantity to be determined by cubic feet of air-space in the greenhouse) and the nicotine fumes are thus distributed. It is very effective in destroying thrip, aphis, white fly, red spider, etc. ¼pt. 70 cts., ½pt. $1.25, pt. $2.50, qt. $4.50, ½gal. $8.25, gal. $15.

**Nico-Fume Liquid.** This preparation is used similar to Nicoticide, and is used by many of the leading growers. ¼lb. can 50 cts., 1-lb. can $1.50, 4-lb. can (½gal.) $5.50, 8 lbs. (1 gal.) $10.50.

**Nico-Fume Paper.** This is a paper treated with nicotine, giving off dense fumes of strong nicotine when ignited. It is also used for tying near blooms of chrysanthemums in early fall to keep down insects. Preferred by many who do not wish to spray or vaporize. Box of 24 sheets 85 cts., box of 144 sheets $4, box of 288 sheets $7.50.

**Nikoteen.** One of the milder forms of tobacco or nicotine preparations, used extensively for spraying; also for vaporizing. ¼pt. 40c., pt. $1.50, case of 10 pts. $14, 4 lbs. (½gal.) $5, 8 lbs. (1 gal.) $10.

**Nikotiana.** Is a twelve per cent solution for vaporizing and spraying. Less concentrated than other nicotine products, it is nevertheless equally effective at proportionate strength and fully as economical. Where a nicotine solution is desired, Nikotiana will meet all the requirements. Qt. $1.50, gal. $4.50.

**Paris Green.** Lb. 40 cts., 5 lbs. $1.75.

# REMEDIES FOR INSECTS AND FUNGUS

**Pyrox.** **(Bowker's.)** The one best and safest all-round spray which kills all leaf-eating insects and prevents blights and all fungous troubles, without injury, on fruit trees, grape-vines, currant bushes, potatoes, cantaloups, cucumbers and other garden vegetables, also on rose bushes, shrubbery, etc. It is a creamy paste which looks like paint and "sticks like paint." It needs only to be mixed with cold water and it is ready to apply. Once tried, always used. Lb. 25 cts., 5 lbs. $1, 10 lbs. $1.75, 25 lbs. $4, 50 lbs. $7.50, 100 lbs. $13.50.

**Readeana.** Rose-bug exterminator. A poisonous preparation which dilutes in water. Used for destroying rose bugs, green fly, mealy bug, blight, mildew, etc. Qt. $1.35, ½gal. $2.25, gal. $4.

**Scalecide.** Soluble crude oil. Used for the destruction of the San José scale. Dilute at the rate of one gallon to twenty gallons of water. Scalecide does not clog nozzles, hose or pump, and is pleasant to use. This preparation is perhaps the best known and is very widely advertised. Orchardists throughout the country use it in large quantities. Trees may be sprayed in winter and early spring before they start to come to bud. Qt. 45 cts., gal. $1, 5 gals. $3.25, 10 gals. $6, 30-gal. bbl. $16, 50-gal. bbl. $25.

**Scaline.** A scale-killer, insecticide and fungicide combined—three in one—which is composed of a high-grade petroleum combined with the properties of our fungicide, Fungine. Can be applied in the growing season as safely as in the dormant season to all trees, shrubs and hardy plants. It is used at a strength of one to twenty parts water for scale; one to fifty parts water for other sap-sucking insects. Gal. $1.50, 5-gal. keg $6.25, 10-gal. keg $10, bbl. (50 gal.) $37.50.

**Slug-Shot.** The standard remedy for currant worms, rose slugs, cabbage worms, and almost any soft-shelled insects that infest the vegetable- or flower-garden. 5 lbs. 35 cts., 10 lbs. 60 cts., 100 lbs. $6.

**Styptic,** for preventing bleeding of vines after pruning. Bottle, $1.25.

**Sulphur.** Used principally in greenhouse for checking mildew (see below for Campbell's Sulphur Vaporizers). Lb. 10 cts., 5 lbs. 40 cts., 10 lbs. 60 cts., 100 lbs. $5.

**Sulpho-Tobacco Soap.** For plants, trees, cattle, poultry, etc. 3-oz. pkg. 10 cts., 8-oz. pkg. 20 cts.

**Tar Liquid.** A preparation of liquid tar, used for healing wounds on trees. Very highly recommended. Gal. 75 cts., 2 gals. $1, 5 gals. $2.25, ½bbl. (30 gallons) $9, bbl. (50 gallons) $12.50.

**Tobacco Dust (Kilmdead).** The best of the Tobacco Dusts for dusting or fumigating. Lb. 10 cts., 5 lbs. 40 cts., 25 lbs. $1.25, 50 lbs. $2.25, 100 lbs. $4.

**Tobacco Stems.** Used for fumigating and under benches in greenhouses. Bale of 100 lbs. $1.50.

**Tree Tanglefoot.** A paste preparation for painting around the trunks of trees, in the form of a band. Caterpillars and other crawling pests cannot get over it. Lb. 30 cts., 3-lb. can 85 cts., 10-lb. can $2.65, 20 lbs. $4.80.

**Vermine.** A soil sterilizer and germicide for all soil vermin, such as cut-, eel-, wire-, and grub-worms, slugs, root-lice, maggots and ants. Use one part of Vermine to four hundred parts of water, thoroughly soaking the ground. It does its work effectively without injury to vegetation, and protects your crops and lawns against the ravages under the soil. ¼pt. 25 cts., ½pt. 40 cts., pt. 65 cts., qt. $1, gal. $3, 5-gal. keg $12.50.

**Whale- or Fish-Oil Soap.** For mild forms of scale, and is an excellent summer spray, when something stronger cannot be used, where the San José scale exists. It is good for washing off lemon trees, oleanders and almost anything that would be infested with a soft-shelled or in fact almost any kind of insect. Dissolved in water according to various purposes. Lb. 20 cts., 5 lbs. 75 cts., 10 lbs. $1.25, 25 lbs. $2, 100 lbs. $6.50.

**Worm Eradicator, Reade's.** When applied, the worms will immediately rise to the surface of the ground of flower-bed, or will fall off the trees, fruits or flowers, and in a few minutes will die. 25-ct. bottle makes 5 gallons; 50-ct. bottle makes 10 gallons; $1 bottle makes 25 gallons.

## Weed Killers

**Herbicide.** A liquid preparation for the killing of weeds of every kind on roadways, paths, gutters, tennis-courts. May be applied by means of sprinkling apparatus of any kind from the small sprinkling can to the large street-sprinkling wagon. It is harmless to stone, woodwork or shoes, and is perfectly odorless.

One thorough application not only kills weeds, but also the roots of the weeds, and affects the soil so that it is impossible for weeds to grow for several years after the application. Each gallon is sufficiently strong to make forty gallons of effective treating liquid when mixed with water. Gal. $1.50, 2-gal. keg $2.75, 5-gal. keg $5.50, 10-gal. keg $10, 25-gal. cask $24, 48-gal, bbl. $35. Full directions accompany each package.

**"Target Brand" Weed Killer.** Is a most effective solution of high-grade chemicals, combined by a secret process. The dilution is one to fifty parts of water, made so easily that a boy or child can attend to it. A remedy that not only reduces the amount of labor, but does it at about one-tenth the cost. A gallon, diluted, is sufficient to cover a space 100 to 150 square yards. Application is best made with a watering can to insure uniform distribution, the most advisable time being after a rain, which is when weeds start to sprout and grow. "Target Brand" Weed Killer effectively destroys the roots as well as the top-growth, and single applications last almost an entire season. Full directions as regards quantities needed, are printed on each container. Qt., makes 51 qts., 50 cts.; ½gal., makes 25½ gals., 75 cts.; gal., makes 51 gals., $1.25; 5 gals., makes 255 gals., $5.; 10 gals., makes 510 gals., $10; bbl. (50 gals.) $35.

**Sterlingworth Weed Killer.** For killing weeds in walks, drives and tennis-courts where no vegetation is wanted. Sterlingworth Weed Killer is put up in powder form, convenient for use at all times, and is diluted one pound to ten gallons of water; may be applied with watering can. Lb. 50 cts., 5 lbs. $2.

**X-L-ALL LIQUID INSECTICIDE.** Destroys mealy bug, scale, thrip, red spider, green and black fly, caterpillars, blight and all insect pests in the garden; it is perfectly safe to use on tender plants. For the winter dressing of vines, figs, peaches and other fruit trees, it has been proved to be the safest and most valuable preparation in the market. Leaves the foliage bright and clean, and much improved in appearance. Qt. $1.25, ½gal. $2.25, gal. $4.50.

**X-L-All Vaporizing Compound.** Used very extensively abroad for vaporizing. No. 1 (sufficient for 40,000 cubic feet), $8; No. 2 (sufficient for 20,000 cubic feet), $4.50; No. 3 (sufficient for 10,000 cubic feet) $2.25.

## Fumigators and Vaporizers

Defiance

**Fumigator, "Eureka."** For fumigating with tobacco stems.
No. 1, holds ½ peck stems ..... $1 50
No. 2, holds 1 peck stems ..... 2 00
No. 3, holds ½ bushel stems ..... 2 50

**Vaporizing Lamp, Defiance.** Practical and indestructible; all metal; burns kerosene; used for dispensing fumes of Nico-Fume and other preparations of this sort. 50 cts. each.

**Vaporizer, Campbell's Patent Sulphur.** Designed to vaporize sulphur in greenhouses without danger. Most useful for killing mildew and other fungous diseases.
No. 1, for houses up to 5,000 cubic feet of space ..... $6 00
No. 2, for houses up to 10,000 cubic feet of space ..... 7 50
**Glass Balls** for above. Box of 6, 15 cts.
**Yellow Powder.** Tin. 20 cts.
**Hollow** or **Solid Wicks,** for either size, 15 cts.

**X-L-All Vaporizing Lamp.** A lamp specially designed for vaporizing of X-L-All Compound. Small size, 50 cts.; larger size, 75 cts.

Sulphur Vaporizer

# CHARCOAL, COCOANUT FIBER, PEAT AND MOSS

**Charcoal.** For prices and sizes, see page 143.

**Cocoanut Fiber.** Excellent material for use in growing bulbs without drainage. 5 lbs. 20 cts., 25 lbs. 75 cts., 50 lbs. $1.25, 100 lbs. $2.

**Leaf-Mold.** Used for preparing rhododendron beds. Bbl. $3.

**Moss, Live Green Sphagnum.** Freshly gathered in season. Bbl. $2.50.

**Moss, Dry Sphagnum.** Large bale $3.

**Moss, Sheet, Natural Green.** For covering the pots or tubs of large plants; sheets range in size about 1 foot wide and from 2 to 5 feet long. Bale, about 2 bus., $5.

**Peat. (Osmundi.)** For orchids. Bbl. $2.50.

**Peat, Rotted, Fibrous.** An excellent material for mixing with potting soil for many plants. This peat has been dug from an old bog and exposed for a number of years until it has become thoroughly decayed. Bbl. $2.50.

# FERTILIZERS

Our list contains the very best and most modern kinds. We can quote special prices on carload quantities

All prices subject to market changes

## S. & W. Co.'s Bone Fertilizers

**No. 1 Bone Dust for Quick Action.** A fine ground bone of the best quality that is immediately available. As a top-dressing or for mixing with soil will be found very effective. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. $1. 50 lbs. $1.60, 100 lbs. $3, ton $50.

**No. 2 Bone Dust for General Use.** A bone dust about pinhead size, with a fair percentage of bone flour. Excellent for top-dressing lawns as well as good for mixing with soil. Sold largely to carnation- and rose-growers for top-dressing and for mixing with soil. 5 lbs. 25 cts., 10 lbs. 40 cts., 25 lbs. $1, 50 lbs. $1.60, 100 lbs. $3, ton $45.

**No. 3 Crushed Bone for Vines and Trees.** Largely used for vines, trees and shrubs. About the size of a bean. Very effective and lasting. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. $1, 50 lbs. $1.60. 100 lbs. $3, ton $50.

**S. & W. Co.'s Charcoal.** Excellent for mixing with soil for pot-plants, also for vines. Three sizes, No. 1, Powdered; No. 2, Medium; No. 3, Lumps, 3 to 4 inches. Any size, per bag of 50 lbs., $1.25.

**S. & W. Co.'s Potato Manure.** This brand is our leader, and is manufactured from a bone-and-meat basis; it is high in analysis and a strictly high-grade fertilizer. It is a brand that has given universal satisfaction for all root-crops, and it is unequaled for potatoes, gardening or truck farming. 50 lbs. $1.75, 100 lbs. $3, 500 lbs. $12.50, 1,000 lbs. $24, ton $45.

**S. & W. Co.'s General Garden Fertilizer.** This Fertilizer is for general garden work for vegetables, flowers and fruits, 10 lbs. sufficient for space 15x15; 500 lbs. to the acre. 5 lbs. 25 cts., 10 lbs. 45 cts., 25 lbs. $1, 50 lbs. $1.75, 100 lbs. $3, ton $45.

**S. & W. Co.'s Corn Fertilizer.** This is a brand which many farmers prefer to use that have sufficient quantities of stable manure for broadcast application, using this brand in the hill or drill. We have many testimonials as to its quality for growing splendid crops of corn. 50 lbs. $1.75, 100 lbs. $3, 500 lbs. $12, 1,000 lbs. $22, ton $40.

## GENERAL LIST OF FERTILIZERS

**ASHES, CANADA HARDWOOD.** Quantity required: Apply one to two tons to the acre, as one heavy application will help much more than the same quantity would applied in fractions. Bbl. of about 200 lbs., $3; ton of 2,000 lbs., in bbls., $24; by car, $22 per ton.

**BASIC SLAG.** See Phosphate.

**BON ARBOR.** A complete plant-food. High in nitrogen, potash and phosphoric acid. ½-lb. package, makes fifteen gallons liquid, 25 cts., 1-lb. package 50 cts., 5-lb. package $1.80. Circular on application.

**"BONORA, NATURE'S PLANT-FOOD."** 5 lbs., making 140 gallons, $2.50; ¼-lb. package, 25 cts.; 1-lb. package, 50 cts. Circular and further information on application.

**BOWKER'S AMMONIATED FOOD FOR FLOWERS.** Made especially for plants grown in the conservatory, house or garden; clean, free from offensive door. Full directions with each package. Small size 15 cts., large size 25 cts.; by mail, 20 cts. and 30 cts.

**CLAY'S CELEBRATED FERTILIZER.** In bags, 1 cwt. (112 lbs.), $7; ½cwt. (56 lbs.), $4; ¼cwt. (28 lbs.), $2.25; ⅛cwt. (14 lbs.), $1.25.

**COW or CATTLE MANURE, Shredded.** One sack of this is equal to one cartload of fresh cow manure; is convenient to handle, making it possible for everyone to get this usually scarce article at all times. In 100-lb. sacks only. 100 lbs. $2.50, 500 lbs. $11.25, 1,000 lbs. $20, ton $35.

**DRIED BLOOD.** Ammonia 14 per cent. Excellent for carnations. 10 lbs. 75 cts., 50 lbs. $3, 100 lbs. $5.

**EMERALD LAWN DRESSING.** A clean, portable and convenient Lawn Dressing, which we have found to be never-failing in inducing a rapid and rich green growth. It should be sown broadcast in the spring or fall, though it can be put on during the summer without injury or danger of burning the grass, and a remarkable improvement will soon be observed. It is in every way more desirable than manure. The use of Emerald Lawn Dressing entirely does away with the old practice of top-dressing lawns with stable manure. Quantity required: A 10-lb. package is sufficient to go over an area of 300 square feet, or for forming a new lawn, from 1,000 to 1,500 lbs. to the acre, or a smaller quantity for renovating an old one. 5 lbs. 25 cts., 10 lbs. 45 cts., 25 lbs. $1, 50 lbs. $1.75, 100 lbs. $3, 500 lbs. $14, 2,000 lbs. (ton) $50.

**FARMOGERM.** High-bred nitrogen-fixing bacteria. Farmogerm is put up in bottles in the following sizes: Garden size, containing material to treat the seeds for one-sixth acre of land, 50 cts.; acre-size, containing material to treat the seeds for one acre, $2; five-acre size, containing material to treat the seed for five acres of land, $6. For the following crops in acre-sizes: **Red Clover, Mammoth Clover, Crimson Clover, White Clover, Bur Clover, Sweet Clover, Alsike, Alfalfa, Berseem, Peanuts, Vetch, Lupins, Garden Beans, Garden Peas, Sweet Peas, Cowpeas, Canadian Field Peas, Soy Beans and all other legumes.** In garden size for Peas, Beans and Sweet Peas; also a mixed culture good for all three. In ordering, state what crop you wish to plant, quantity wanted, and **ask for book on the Farmogerm Method.**

**LIME, R. R. AGRICULTURAL.** This Lime is specially prepared for use on the soil, and is a combination of calcium-hydrate and calcium-carbonate, finely pulverized. Quantity required: Heavy soils, 2,000 to 6,000 lbs. to the acre; light, sandy soils, 1,000 to 3,000 lbs. to the acre, according to their apparent need. 100-lb. bag, $1.25; 500 lbs., $5; ton, $14. In lots of three tons or over, $12.50 per ton; carload lots, $9 per ton, f. o. b. New York.

**MURIATE OF POTASH.** A form of Potash salts to be used with bone meal, bone and blood, or farm manures, on fruits, celery, asparagus, corn, oats, turnips, cucumbers, grapes, carrots, onions, peas, clover and beans. Must not be used on hops, potatoes, tobacco, flax, sugar beets, cabbage or cauliflower. Apply 50 to 400 lbs. to the acre. Lb. 15 cts., 5 lbs. 60 cts., 10 lbs. $1, 25 lbs. $2, 50 lbs. $3.50, 100 lbs. $6. Prices subject to change without notice. Prices on larger quantities on application.

**NITRATE OF SODA.** Quantity required: Being extremely soluble, it is usually applied after the plants are above ground. 100 to 500 lbs. to the acre. 1-lb. tin 25 cts., 5-lb. package 40 cts., 10-lb. package 75 cts., 25-lb. bag $1.50, 50-lb. bag $2.50, 100 lbs. $4.50.

**PHOSPHATE, High-Grade Acid** or **Rock.** Apply 1,000 lbs. per acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. In 200-lb. sacks only, $2; ton, $14.50.

**PHOSPHATE, Thomas' Basic Slag.** Contains proper elements to produce a rich, luxuriant growth; apply 600 to 800 lbs. to the acre. 5 lbs. 25c., 10 lbs. 40c., 25 lbs. 75c., 50 lbs. $1.25, 100 lbs. $2.25.

**SALT.** For agricultural purposes, asparagus beds and putting on walks and roads to kill weeds. Apply 600 to 800 lbs. to the acre in early spring. 10 lbs. 20 cts., 25 lbs. 30 cts., 50 lbs. 55 cts., 100 lbs. $1, 200 lbs. $1.50, ton $10.

**SCOTCH SOOT.** Genuine imported. For stimulating a healthy growth of dark green foliage, and it will free the soil of slugs, grubs and cut worms. 10 lbs. 60 cts., 50 lbs. $2.50, 100 lbs. $4.

**SHEEP MANURE, PURE PULVERIZED.** A pure, natural, nutritious manure. Immediate and lasting in effect. Excellent for mixing with the soil for greenhouse plants. In the vegetable-garden it promotes a rapid, steady growth until maturity. It makes a rich liquid manure. Quantity required: For garden and field crops, one to two tons to the acre; one-half before plowing, the balance before harrowing. For top-dressing grass, use 1 ton to the acre, applied in fall or early spring. 100-lb. bag $2, ton of 2,000 lbs. $30. In packages of 2 lbs. 15 cts., 5 lbs. 25 cts., 10 lbs. 40 cts.

**SULPHATE OF POTASH.** Apply 100 to 125 lbs. to the acre, usually with other fertilizers. On account of its great strength it must be used judiciously. Valuable for root- and grain-crops. Analysis, equal to 50 per cent of actual potash. Lb. 20 cts., 5 lbs. 80 cts., 10 lbs. $1.40, 25 lbs. $3, 50 lbs. $4.50, 100 lbs. $8. Prices subject to change without notice. Prices on larger quantities on application.

**THOMSON'S VINE, PLANT AND VEGETABLE MANURE.** 28 lbs. $1.75, 56 lbs. $3.50, 112 lbs. $6.75.

**THOMSON'S SPECIAL CHRYSANTHEMUM AND TOP-DRESSING MANURE.** An excellent stimulant. 7-lb. bag, $1.50, 14-lb. bag $2.50, 28-lb. bag $4, 56-lb. bag $7.

# INDEX

## Vegetable Seeds


PAGE

Artichoke....10
Asparagus....10
Beans....8, 11–13
Beet....14, 36
Brussels Sprouts....14
Cabbage....8, 15
Cabbage Plants....92
Carrot....8, 16, 36
Cauliflower....17
Celeriac....18
Celery....8, 18
Chervil....14
Chicory....14
Corn Salad....20
Corn, Sugar....8, 19
Cress....14
Cucumber....20
Dandelion....20
Eggplant....21
Endive....21
Esculent Plants, Roots and Herbs..36
Garlic....20
Gumbo....27
Herbs....36
Kale....21, 32
Kohlrabi....21
Leek....8, 21
Lettuce....8, 22
Mangel-Wurzel....36
Martynia....21
Mushroom Spawn...24
Muskmelon....8, 23
Mustard....21
Novelties and Specialties....8, 9
Okra....27
Onions....9, 25, 26
Parsley....9, 27
Parsnips....9, 27
Peas....9, 28, 29
Potatoes....9, 30
Pepper....9, 27
Pepper Grass....14
Pumpkins....30
Radish....31
Root Crops....36
Rhubarb....27
Rutabaga....36
Salsify....32
Scorzonera....32
Sorrel....32
Spinach....9, 32
Sprouts....32
Squash....33
Swiss Chard....32
Tomatoes....9, 34, 35
Turnips....35, 36
Vegetable Marrow...33
Watermelon....24


## Flower Seeds


PAGE

Abronia....37
Abrus....37
Abutilon....37
Acacia....37
Achillea....37
Aconitum....37
Acroclinium....37, 71
Adonis....37
Ageratum....37
Agrostemma....37
Aloysia....37, 69
Alstrœmeria....37
Alyssum....4, 38
Amaranth, Globe 51, 71
Amarantus....38
Ampelopsis....38
Anchusa....38
Anemone....38
Anthemis....38
Anthericum....38
Antirrhinum....4, 39
Apple, Balsam....56
Aquilegia....38
Arctotis....39
Aristolochia....39
Asparagus....39
Asperula....41
Asters 2, 3, 4, 40, 41, 66
Aubretia....41
Baby's Breath...5, 52
Balloon Vine....41
Balsam....42
Baptisia....41
Bartonia....41
Bean, Hyacinth..49, 54
Bean, Scarlet Runner..42
Bee Balm....56
Beet, Ornamental....71
Begonia....4, 42
Bellflower....37, 70
Bellis....42
Blanket Flower....52
Bocconia....41
Brachycome....42
Browallia....42
Cacalia....42
Calceolaria....42
Calendula....43
Calliopsis....4, 43
Campanula....43
Canary-Bird Flower..43
Candytuft....44
Cardinal Climber.... 4
Carnation....44
Castor-Oil Plant....45
Catchfly....65
Celosia....45
Centaurea....4, 46
Cerastium....42
Chelone....42
Chrysanthemum....47
Cigar Plant....48
Cineraria....47
Clarkia....4, 47
Clematis....47
Cleome....47
Clerodendron....47
Clianthus....47
Cobæa....47
Cockscomb....45
Coleus....47
Columbine....38
Convolvulus....47
Coreopsis....48
Cornflower....46
Cosmos....4, 48
Cowslip....49
Cuphea....48
Cyclamen....49
Cypress, Summer....55
Cypress Vine....48
Dahlia....48
Daisy .4, 39, 41, 42, 47
Datura....48
Delphinium....4, 49
Dianthus....50, 69
Digitalis....50
Dimorphotheca.... 4
Dolichos....49
Dracæna....50
Dusty Miller....46
Echinocystis....51
Echinops....51
Edelweiss....51
Eryngium....51
Eschscholtzia....51, 54
Eupatorium....51
Euphorbia....51
Everlasting Flowers..71
Feverfew....56
Flax....55
Forget-me-not....51
Four o'Clock....51
Foxglove....50
Fuchsia....51
Gaillardia....4, 52
Gaura....51
Gerbera....4, 51
Geum....51
Gloxinia....51
Gnaphalium....51
Godetia....52
Gourds....52
Grasses, Ornamental.71
Grevillea....52
Gypsophila....5, 52
Helenium....52
Helianthus....52
Helichrysum....53, 71
Heliopsis....53
Heliotrope....53, 69
Heuchera....53
Hibiscus....53
Hollyhock....54
Honesty....53
Humulus....54
Hunnemannia....5, 54
Iberis....44
Ice Plant....54
Impatiens....54
Incarvillea....54
Ipomœa....48, 55
Ivy, Kenilworth....55
Kochia....55
Kudzu Vine....62
Lady's Slipper....42
Lantana....55
Larkspurs....49, 55
Lathyrus....55
Lavatera....5, 55
Lavender....55, 66, 71
Lavendula....55
Linaria....55
Linum....55
Lobelia....56
Love-Lies-Bleeding..38
Lupinus....56
Lychnis....55
Mallow....53, 55, 56
Malva....56
Marigold....5, 43, 57
Matthiola....56
Matricaria....56
Maurandia....56
Mesembryanthemum54
Mignonette....57
Mimosa....56
Mimulus....56
Momordica....56
Monarda....56
Monkshood....37
Moonflower....55
Moonwort....53
Morning-Glory ..47, 55
Musa....56
Musk Plant....56
Myosotis....51
Nasturtiums....5, 58
Nemophila....59
Nicotiana....59
Nigella....59
Novelties and Specialties....2–6
Œnothera....59
Oxalis....59
Pansies....5, 60
Pansies, Tufted....70
Passion Flower....62
Pear, Balsam....56
Pea, Everlasting....55
Pentstemon....62
Pepper....59
Petunia....5, 61
Pheasant's Eye....37
Phlox Drummondii..59
Physalis....62
Physostegia....59
Pinks....50
Platycentra....48
Polemonium....62
Poppies....5, 51, 54, 62
Portulaca....62
Primrose....5, 59, 63
Primula....5, 63
Pueraria....62
Pyrethum....63
Red-Hot-Poker Plant 69
Rehmannia....64
Reseda....57
Rhodanthe....71
Ricinus....45
Rose of Heaven....37
Salpiglossis....64
Salvia....5, 64
Scabiosa....65
Schizanthus....5, 65
Shamrock....65
Silene....65
Silk Oak....52
Smilax....65
Snapdragon....39
Sneezewort....37, 52
Solanum....66
Spider Flower....47
Statice....66, 71
Stevia....66
Stocks....56, 66
Stokesia....66
Sweet Peas..6, 7, 67, 68
Sweet William....6, 69
Sunflower....5, 52, 53
Tagetes....66
Thoroughwort....51
Thunbergia....66
Torenia....66
Tritoma....69
Trollius....69
Tropæolum....43
Valerian....69
Verbenas....6, 37, 69
Veronica....70
Vinca....70
Viola....70
Violet....70
Virgin's Bower....47
Wahlenbergia....70
Wallflower....70
Windflower....38
Wolfsbane....37
Xeranthemum....71
Youth and Old Age..70
Zinnia....6, 70


## Bulbs and Plants


PAGE

Achillea....108
Aconitum....108
Adam's Needle....115
Adonis....108
Alyssum....108
Amaryllis....99, 102
Ampelopsis....107
Anchusa....108
Anemone....99, 108
Anthemis....108
Apios....99
Aquilegia....108
Arabis....108
Aristolochia....107
Asters....108
Begonias....100
Bellflower....108
Bellis....108
Bessera....99
Bignonia....107
Blazing Star....110
Bleeding Heart....102
Bocconia....108
Boltonia....108
Caladium....99, 101
Callas....102
Campanula....108
Cannas....84, 85
Canterbury Bells...108
Carnation....121
Chelone....109
Chrysanthemum 109, 121
Cinnamon Vine....99
Clematis....107
Climbing Plants....107
Columbine....108
Coral Drops....99
Coreopsis....109
Dahlias....86–91
Daisies....108, 109
Delphiniums....109
Dictamnus....109
Dielytra....102
Digitalis....109
Dioscorea....99
Doronicum....109
Dutchman's Pipe...107
Elephant's Ear....99
Eremurus....102
Eulalia....109
Eupatorium....109
Feverfew....109
Foxglove....109
Gaillardia....110
Gas Plant....109
Geum....109
Gladioli....93–95
Globe Flower....115
Gloxinias....101
Gypsophila....109
Hedge Plants....106
Helenium....110
Heliopsis....110
Hemerocallis....110
Herbaceous Plants 108–117
Heuchera....110
Honeysuckle....107
Hollyhock....110
Hyacinth....102
Hyacinthus....102
Iberis....110
Iris....111
Ismene....102
Ivy....107
Kudzu Vine....107
Liatris....110
Lilies....96–98
Lily-of-the-Valley....98
Lobelia....110
Lupinus....110
Lychnis....110
Lycoris....102
Madeira Vine....102
Milla....102
Monarda....110
Montbretia....103
Oxalis....102
Papaver....114
Pentstemon....114
Peonies....112
Phlox....113
Physalis....114
Physostegia....114
Pinks....113, 114
Platycodon....114
Plumbago....114
Poppies....114
Primula....114
Pyrethrum....114
Richardia....102
Roses....104–106, 122
Rudbeckia....114
Rush, Japan....109
Salvia....115
Scabiosa....115
Sedum....115
Shell Flower...103, 109
Spiræa....115
Star Flower, Mex...102
Statice....115
Stokesia....115
Sunflower....110
Sweet William....115
Tea, Oswego....110
Tiger Flower....103
Tigridias....103
Tritoma....115
Trollius....115
Trumpet Creeper...107
Tuberoses....103
Valeriana....115
Veronica....115
Vinca....115
Wallflowers....115
Wistaria....107
Yucca....115


## Shrubs


PAGE

Azalea....116
Calycanthus....116
Cerasus....116
Cherry, Flowering..116
Cornus....116
Cratægus....116
Cytisus....116
Deutzia....116
Dogwood....116
Forsythia....116
Golden Chain....116
Hawthorn....116
Hibiscus....116
Honeysuckle....116
Hydrangea....116
Kerria....116
Lilacs....116
Lonicera....116
Magnolias....117
Mahonia....117
Malus....117
Maple, Japanese....117
Prunus....117
Rhododendrons....117
Rose of Sharon....116
Sambucus....117
Spiræa....117
Staphylea....117
Strawberry Shrub...116
Symphoricarpos....117
Syringa....117
Viburnum....117
Weigela....117
**Evergreen Trees....92**


## Fruits


PAGE

Apples....118
Blackberries....120
Cherries....118
Crab Apples....118
Currants....120
Fruit Trees, Foreign118
Gooseberries....120
Grape-vines....119
Peaches....118
Pears....118
Plums....118
Quinces....118
Raspberries....120
Trees, Pot-Grown..118


## Farm Seeds


PAGE

Alfalfa....78
Alsike....78
Barley....83
Beans....81, 82
Buckwheat....83
Cane, Sugar....82
Clover....78
Corn, Field....80
Cowpeas....81
Grass Seed....72–77
Millet....82, 83
Oats....83
Peas, Field....81
Rape....82
Rye....83
Sunflower....82
Vetch....82
Wheat....83


## Implements and Miscellaneous


PAGE

Ash Cans....127
Asparagus Buncher 127
Asparagus Knives..127
Baskets....125, 134
Bird-houses....135
Boxes....125, 134
Carnation Supports 130
Charcoal....142
Clips....130
Coal....129
Cocoanut Fiber....142
Corn Knife....130
Dibble....120
Dusters....128
Egg-tester....130
Farmogerm....28
Fertilizers....142
Fertilizer Sower....128
Flower-Pots, etc....12
Fork....120
Fruit Picker....138
Fumigator....136, 142
Garden Line....120
Garden Reel....120
Glass Cutter....130
Glazing Materials..130
Gloves, Gardener's..130
Grafting Wax....130
Grass Catchers....130
Grass Hook....120
Grass Seed Sower..120
Heaters....120
Hoes....126, 127, 130
Horse Boots....130
Hose Menders....130
Hose Nozzles....130
Hose Reel....130
Hotbed Mats and Sash....130
Ink....130
Insecticides....141, 142
Knives....130
Lawn Cleaner....120
Lawn Mowers..130, 130
Lawn Roller...131, 130
Lawn Seed....130
Mole Trap....120
Moss....142
Paper....130
Peat....142
Pencils....130
Planet Jr. Tools 123, 120
Plant-Tubs....130
Post-hole Diggers...130
Pruners....136, 130
Putty....130
Raffia....130
Rakes....127, 120
Rolling Stands....130
Rubber Hose....130
Rubbish Burner....120
Rustic Ware....130
Saws....130
Scissors....130
Scythe....126, 130
Shears, Pruning....130
Shovels....130
Silkaline....130
Sod Perforator....130
Spades....130
Sprayers....139, 130
Sprinklers....130
Stakes....130
Step-ladder....130
Syringes....142
Thermometers....130
Tomato Supports...130
Torch....130
Trowel....130
Watering Pot....130
Weeders....126, 130
Weed Killers....130
Wire Arches, etc....130
Vaporizers....130

# BOOKS on Horticulture, Agriculture and Kindred Subjects

## BOOKS MAILED FREE OF CHARGE AT PRICES GIVEN

This list embraces a large proportion of the most popular horticultural and agricultural books published in the United States, describing briefly various works on the leading topics connected with American rural life. These books have been prepared by the leading authorities on their respective subjects, and represent the most recent results of agricultural and horticultural research on the questions of farming and allied subjects, combined with the highest type of modern book-making.

We are always happy to correspond with our subscribers, and cordially invite them to address us on any matter pertaining to rural books. Any work not in this list can be obtained at short notice at the regular retail price.

**A Woman's Hardy Garden.** By Mrs. H. R. Ely. Gives in an interesting manner a woman's long and successful experience in planting a large garden of hardy plants, bulbs and shrubs. Well illustrated..... $1 00

**American Fruit-Culturist.** By J. J. Thomas. 20th edition; just revised and enlarged. A handbook of everything pertaining to fruit-culture..... 2 50

**Apple-Culture, Field Notes on.** By Prof. L. H. Bailey. Practical and valuable instructions from planting to harvesting..... 75

**Asparagus.** By F. M. Hexamer. A practical treatise on the best methods of raising, cultivating, harvesting, marketing, forcing and canning asparagus..... 50

**Cabbage, Cauliflower, etc.** By Allen..... 50

**Chrysanthemum-Culture.** By A. Herrington. A practical treatise dealing with the subject very exhaustively, from the cutting to the finished bloom..... 50

**Cranberry-Culture.** By J. J. White. Location, preparation, planting, management, picking, keeping, etc..... 1 00

**Cut-flowers and How to Grow.** By M. A. Hunt. The practcial cultivation of roses and other flowers for cut-flowers, by an authority..... 2 00

**Dahlia, The.** By L. K. Peacock..... 50

**Farm Grasses of U. S.** By W. J. Spelman, Agrastologist of the U. S. Dept. of Agriculture. Seeding and management of meadows, and pastures. Varieties of grasses for different climates and requirements..... 1 00

**Fertilizers.** By Prof. E. B. Voorhees, of N. J. Agricultural Experiment Station..... 1 00

**Flowers. (The Cultivation of Garden and House Plants.)** By Rexford. Written particularly for amateurs..... 50

**Gardening for Pleasure.** A guide to the amateur in the fruit-, flower- and vegetable-garden..... 1 50

**Gardening for Profit.** A handbook on vegetable-gardening.... 1 50

**Garden-Making.** By Prof. L. H. Bailey. Instructions for beginners and for the skilled gardener. Covers the whole subject, laying out and planting small city yards and large suburban grounds, plants, trees, bedding, pruning, vegetables, fruits. Scientific truths in simple language..... 1 00

**Goldfish.** A thorough guide for Goldfish keeping and breeding. By H. Mulertt..... 1 00

**Grasses and Forage Plants.** By Chas. L. Flint. New edition. Varieties, nutritive values, culture, curing; management of grass-lands, etc..... 2 00

**Greenhouse Management.** By L. R. Taft. The latest and best work on forcing roses, carnations and other florists' flowers, vegetables and fruits under glass; propagation, diseases and insects..... 1 50

**Grape-Growing and Wine-Making, American.** By Prof. G. Husmann. Revised. Garden and vineyard management from planting to harvesting, both in the East, West and California; all about making wine..... 1 50

**Handbook for Farmers and Dairymen.** By F. W. Woll, Professor of Agricultural Chemistry, University of Wisconsin. A book of reference of great value, facts, tables, formulas, receipts, cultivation of crops, feeding animals, etc..... 1 50

**Handbook of Plants.** By Peter Henderson. Description and American culture of species..... 3 00

**Hedges, Windbreaks, Shelters and Live Fences.** By E. P. Powell. The planting, growth and management for country and suburban homes..... 50

**Home Vegetable-Gardening.** By F. F. Rockwell. An indispensable guide for the man who wants to raise his own vegetables, written by a man who does it..... $1 50

**House Plants, How to Succeed with Them.** By Lizzie P. Hillhouse. For women who grow house plants, by a woman who has success..... 1 00

**Irrigation for Farm, Garden and Orchard.** By Henry Stewart. Methods and management to secure water for critical periods..... 1 00

**Landscape Gardening.** By Prof. F. A. Waugh, University of Vermont. Short treatise on the principles governing outdoor art..... 50

**Making a Lawn.** By Luke J. Doogue..... 75

**Making a Rose-Garden.** By Henry H. Saylor..... 75

**Mushroom-Culture.** By W. Robinson, an English authority on the subject..... 1 00

**Mushrooms, How to Grow Them.** By Wm. Falconer. The best and most practical American work on growing for home use or for market..... 1 00

**Onion-Culture.** By T. Greiner..... 50

**Parsons on the Rose.** By Samuel B. Parsons..... 1 00

**Plant-Culture.** By G. W. Oliver, Propagator of the U. S. Dept. of Agriculture. A working handbook of everyday practice for all who grow flowering and ornamental plants in the garden or greenhouse. 193 pages..... 1 50

**Practical Potato-Culture.** By E. A. Rogers..... 50

**Pruning-Book, The.** By Prof. L. H. Bailey. The pruning and training of plants as applied to American conditions..... 1 50

**Residential Sites and Environments.** By J. F. Johnson. All information for developing residential surroundings; diagrams, suitable plants, trees, shrubs, grouping, culture, etc..... 2 50

**Strawberry-Culturist.** By A. S. Fuller. Field, garden, forcing and pot-culture; hybridizing, varieties, etc..... 25

**Talks on Manures.** By Joseph Harris, M. S. Familiar talks on the whole subject of manures and fertilizers..... 1 50

**The Hop.** By H. Myrick. Every detail from preparing the soil to curing and selling the crops; insects, etc..... 1 50

**The Old-fashioned Garden and Hardy Perennials.** By J. Wood. (Imported.) Old-fashioned flowering and foliage plants, shrubberies, etc..... 1 50

**The Orchard House.** By J. R. Pearson. The English method of growing fruits in glasshouses. Construction and management..... 50

**The Principles of Fruit-Growing.** By Prof. L. H. Bailey. A new work and one of the most valuable on the subject, science and practice..... 1 25

**Vines and How to Grow Them.** By William C. McCollom. A manual of climbing plants for flower, foliage and fruit effects, including those shrubs and similar forms that may be used as vines; written in a practical manner by a practical man.... 1 10

**The Book of Alfalfa.** By F. D. Coburn. This book is by far the most authoritative, complete and valuable work on this forage crop ever written..... 2 00

**The Window Flower-Garden.** By J. J. Heinrich. The personal experience of a practical florist..... 50

**The Spraying of Plants.** By Prof. E. C. Lodeman. Insects and fungi; liquids and powders, application and apparatus.... 1 00

**The Vegetable-Garden.** By E. P. Dutton..... 4 00

**Violet-Growing, Commercial.** By Prof. B. T. Galloway, of U. S. Department of Agriculture..... 1 50

**Water-Gardening.** By William Tricker. Embracing the construction of ponds, adapting natural streams, planting, propagating, etc., by a well-known authority..... 2 00

J. Horace McFarland Co., Horticultural Printers, Harrisburg, Pa.

Stumpp & Walter Co

30 & 32 BARCLAY ST.
NEW YORK

FOUR OF THE
KING ASTERS
TWO-THIRDS NATURAL SIZE
SEE PAGE 2